

حمل الآن

مجاناً وحصرياً

المراجعة رقم (1)

اختبار شهر مارس



1. Complete.

1. $\frac{1}{5} \div \frac{2}{9} =$ _____

[Cairo 24]

2. Fifth of 15 is _____

[El Menia 24]

3. The reciprocal of $\frac{5}{7}$ is _____

[Souhag 24]

4. The reciprocal of 7 is _____

[Alex. 24]

5. $\frac{1}{2} \div \frac{3}{4} =$ _____

[Port Said 24]

6. $\frac{1}{6}$ of 12 is _____

[Cairo 24]

7. $\frac{3}{4}$ of $\frac{4}{3} =$ _____

[El Menia 24]

8. $\frac{2}{7} \times$ _____ $= 1$

[Cairo 24]

9. $\frac{2}{5} \div \frac{10}{4} =$ _____

[Qena 24]

10. $2 \div \frac{3}{4} =$ _____

[Cairo 24]

11. $\frac{2}{5} \div 2 =$ _____

[Cairo 24]

12. If 8 is $\frac{1}{3}$ of a number, then this number is _____

[Port Said 24]

13. $\frac{3}{5} \div 1 =$ _____

[Cairo 24]

14. From the opposite model



, $\frac{3}{4} \div 2 =$ _____



[El Beheira 24]

15. $7.8 \div 3.9 = 78 \div$ _____

[Cairo 24]

16. $3.4 \times 0.2 =$ _____

[Qena 24]

17. $0.9 \times 1.5 =$ _____

[Cairo 24]

18. _____ $\times \frac{1}{3} = 1$

[Beni Suef 24]

19. $5.37 \div 0.4 =$ _____ $\div 4$

[Cairo 24]

20. $2.44 \times 0.01 =$ _____

[Luxor 24]

21. $5 \div \frac{2}{3} = 5 \times$ _____

[Aswan 24]

22. $3 \div \frac{1}{2} =$ _____

[Souhag 24]

23. $0.8 \div 0.2 =$ _____

[Cairo 24]

24. $\frac{7}{8} \div \text{_____} = 7$

25. The number of $\frac{2}{5}$'s in 2 is _____

26. The model  represents _____ $\div$ _____

27. Half of $\frac{4}{7} =$ _____

28. $4.24 \div 0.8 =$ _____

29. _____ $\times \frac{3}{4} = \frac{1}{2}$

30. If $31 \times 25 = 775$, then $0.31 \times 2.5 =$ _____

[Ismailia 24]

[Kafr El Sheikh 24]

[El Gharbia 24]

[Demietta 24]

[Alex. 24]

[Cairo 24]

[Luxor 24]

2. Choose the correct answer.

1. The reciprocal of $\frac{4}{5}$ is _____

A. $\frac{4}{5}$

B. $\frac{5}{4}$

C. 1

D. 0.8

[Cairo 24]

2. The reciprocal of 5 is _____

A. 0

B. 5

C. -5

D. $\frac{1}{5}$

[Cairo 24]

3. $\frac{3}{4} \times m = \frac{3}{8}$, then $m =$ _____

A. 1

B. $\frac{1}{2}$

C. $\frac{3}{4}$

D. 2

[Cairo 24]

4. $\frac{3}{8} \div \frac{1}{16} =$ _____

A. 2

B. 3

C. 6

D. $\frac{3}{24}$

[El Monofia 24]

5. $\frac{4}{5} \div \text{_____} = 1$

A. $\frac{4}{5}$

B. $\frac{5}{4}$

C. 1

D. 0.4

[Cairo 24]

6. _____ $\times \frac{3}{4} = 1$

A. $1\frac{1}{3}$

B. $4\frac{1}{3}$

C. $1\frac{2}{3}$

D. $\frac{3}{4}$

[Qena 24]

7. $6 \div \frac{3}{4} =$ _____

A. 6

B. $\frac{1}{6}$

C. 8

D. $\frac{1}{8}$

[El Beheira 24]

8. _____ $\div \frac{3}{5} = 0$

A. $\frac{5}{3}$

B. 1

C. $\frac{3}{5}$

D. 0

[Giza 24]

9. $\frac{2}{3} \div 2 =$ _____ in the simplest form.

A. $\frac{1}{6}$

B. $\frac{2}{6}$

C. $\frac{1}{3}$

D. $\frac{4}{6}$

[Alex. 24]

10. If 4 is $\frac{1}{9}$ of a number, then this number is _____

A. 36

B. 32

C. $2\frac{1}{4}$

D. $\frac{4}{9}$

[Cairo 24]

11. If we need to cut 2 meters of ribbon into pieces that are $\frac{2}{3}$ of meter, which expression can you use to check your answer _____ [Souhag 24]
- A. $\frac{2}{3} \div 3$ B. $2 \div \frac{2}{3}$ C. $2 \times \frac{2}{3}$ D. $\frac{2}{3} \times 3$
12. $2\frac{2}{7} = 2 \times \frac{\quad}{7}$ [Cairo 24]
- A. 2 B. 8 C. 6 D. 18
13. $\frac{1}{3} \div \frac{1}{2}$ _____ $\frac{2}{5}$ [Souhag 24]
- A. < B. = C. > D. otherwise
14. $\frac{3}{4} \div \frac{1}{2}$ _____ $\frac{1}{6}$ [Cairo 24]
- A. < B. > C. = D. $\leq$
15. 5×5 _____ $5 \div \frac{1}{5}$ [Cairo 24]
- A. < B. > C. = D. otherwise
16. $\frac{5}{7} \div \frac{2}{14} =$ _____ [Giza 24]
- A. $\frac{5}{10}$ B. 7 C. $\frac{10}{14}$ D. 5
17. How many $\frac{3}{4}$'s are there in 6 oranges? [Cairo 24]
- A. 8 B. $\frac{18}{4}$ C. $4\frac{1}{2}$ D. 7
18. $0.676 \times 0.1 =$ _____ [Alex. 24]
- A. 67.6 B. 0.0676 C. 16.76 D. 6,706
19. $0.56 \times 0.2 =$ _____ [Cairo 24]
- A. 11.12 B. 0.112 C. 11.2 D. 0.0112
20. Which of the following is equivalent to $\frac{1}{4} \div 8$? [Port Said 24]
- A. $\frac{1}{4} \div \frac{1}{8}$ B. $\frac{1}{4} \times \frac{1}{8}$ C. $2 \times \frac{1}{8}$ D. $2 \div \frac{1}{8}$
21. The used problem to check of $\frac{3}{7} \div 3 = \frac{1}{7}$ is _____ [Cairo 24]
- A. $3 \div \frac{1}{7} = 21$ B. $\frac{3}{7} \times \frac{1}{7} = \frac{3}{14}$ C. $\frac{1}{7} \times 3 = \frac{3}{7}$ D. $\frac{3}{7} \times 3 = \frac{3}{7}$
22. $\frac{5}{7} \times$ _____ = 1 [Cairo 24]
- A. 1 B. 0 C. $\frac{7}{5}$ D. $\frac{5}{6}$
23. If $123 \times 26 = 3,198$, then $1.23 \times 2.6 =$ _____ [Cairo 24]
- A. 3.198 B. 31.98 C. 3,198 D. 0.3198
24. $3.6 \div 0.04 =$ _____ [El Beheira 24]
- A. 9 B. 0.9 C. 90 D. 0.09

25. $2.1 \times 0.3 =$ _____

[El Monofia 24]

A. 63

B. 0.63

C. 0.063

D. 6.3

26. $12.12 \div 1.1 =$ _____ $\div 11$

[Giza 24]

A. 1,212

B. 1.212

C. 12.12

D. 121.2

27. $0.2 \times 0.5 =$ _____

[El Menia 24]

A. 0.10

B. 0.01

C. 1

D. 1.10

28. From the opposite model

$3 \div \frac{1}{4} =$ _____

A. $\frac{3}{4}$ B. $\frac{4}{3}$ C. $\frac{1}{12}$

D. 12

29. $\frac{4}{11} \div \frac{1}{4} =$ _____

[Alex. 24]

A. $\frac{1}{11}$ B. $\frac{4}{4}$ C. $\frac{16}{11}$ D. $\frac{11}{16}$

[Luxor 24]

30. _____ has no reciprocal.

[El Menia 24]

A. 1

B. 0

C. 2

D. 5

3. Answer the following.

1. Find the value of: $\frac{4}{9} \times 81$

[Giza 24]

2. Find the value: $\frac{5}{7}$ of 35

[Giza 24]

3. A road of length 8 km. A road lamp is placed every $\frac{1}{5}$ km.

How many lamps does the road need ?

[Alex. 24]

4. A runner covered $\frac{4}{5}$ kilometer in 2 laps. How many kilometers did he run in one lap ?

[El Menia 24]

5. Wael covered $\frac{3}{4}$ km in 6 min. What is the distance covered in one min ?

[Alex. 24]

6. Youssef distributed $\frac{5}{8}$ kg of meat from his refrigerator among some persons, find the number of persons if each person's share $\frac{1}{8}$ kg of this meat

[El Beheira 24]

General Revision

on UNIT 9

1. Complete.

1. If $\frac{3}{7} = \frac{k}{49}$, then $k =$ _____

[Cairo 24]

2. The first term in the ratio 4 : 7 is _____

[El Menia 24]

3. If $\frac{3}{4} = \frac{x}{12}$, then $x =$ _____

[Giza 24]

4. $24 : 30 =$ _____ to _____ [in simplest form]

[El Beheira 24]

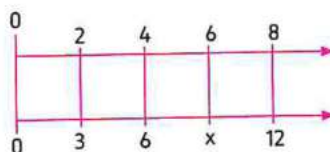
5. The first term in the ratio $\frac{3}{5}$ is _____

[Alex. 24]

6. $12 : 16 =$ _____ : _____ [in simplest form]

[Cairo 24]

7. From the opposite double number line, the value of $x =$ _____

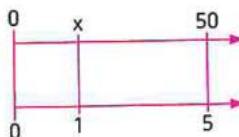


[Giza 24]

8. The next ratio in the pattern $\frac{1}{2}, \frac{2}{4}, \frac{3}{6}$ is _____

[Alex. 24]

9. From the opposite double number line, the value of x is _____



[Alex. 24]

10. If 3 : 7 is equivalent to 21 : y , then $y =$ _____

[Cairo 24]

11. If $\frac{1}{7} = \frac{x}{14}$, then $x =$ _____

[Giza 24]

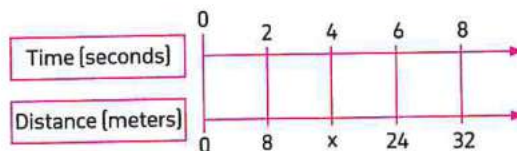
12. $240 : 300 =$ _____ : _____ [in simplest form]

[Qena 24]

13. If $\frac{2}{5} = \frac{60}{x}$, then $x =$ _____

[El Monofia 24]

14. From the opposite double number line, the value of $x =$ _____



[Giza 24]

15. The second term in the ratio 8 : 7 is _____

[El Beheira 24]

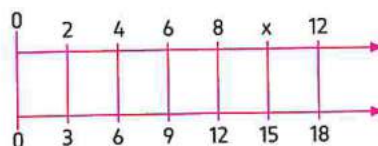
16. If $\frac{5}{7} = \frac{10}{c}$, then $c =$ _____

[El Beheira 24]

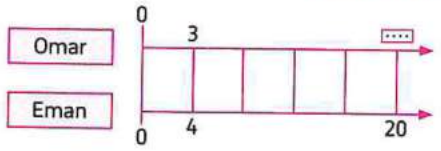
17. If the number of boys in a class is 12 and the number of girls is 15, then the ratio between the number of boys to the number of girls = _____ : _____

[El Monofia 24]

18. From the opposite double number line, the value of $x =$ _____



[Giza 24]

19. $1 : 3 = 15 : \underline{\hspace{2cm}}$ [El Monofia 24]
20. If the ratio between two numbers is $2 : 5$ and the smaller number is 10, then the greater number = $\underline{\hspace{2cm}}$ [Cairo 24] [El Menia 24]
21. The ratio between two side lengths of a rhombus is $\underline{\hspace{2cm}}$ [Giza 24]
22. If $\frac{3}{4} = \frac{12}{x}$, then $x + 4 = \underline{\hspace{2cm}}$ [Giza 24]
23. If $3 : 4$ is equivalent to $m : 20$, then $m = \underline{\hspace{2cm}}$ [Port Said 24]
24. If $\frac{2}{3} = \frac{6}{9}$, then $2 \times 9 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$ [Cairo 24]
25. From the opposite double number line, if the ratio between Omar saves and Eman saves was $3 : 4$, if Eman saved 20 L.E., then Omar saved $\underline{\hspace{2cm}}$ L.E.
- 
- [El Monofia 24]
26. If the ratio between what Ahmed has to what Sara has is $4 : 7$, and Sara has 56 pounds, then Ahmed has $\underline{\hspace{2cm}}$ pounds. [El Monofia 24]
27. If $\frac{7}{10} = \frac{21}{x}$, then $x = \underline{\hspace{2cm}}$ [Cairo 24]

2. Choose the correct answer.

1. The first term in the ratio $\frac{7}{9}$ is $\underline{\hspace{2cm}}$ [Souhag 24]
 A. 7 B. 9 C. 16 D. 63
2. The second term in the ratio $\frac{7}{9}$ is $\underline{\hspace{2cm}}$ [Alex. 24]
 A. 9 B. 7 C. 16 D. 2
3. $7 : 21 = \underline{\hspace{2cm}} : \underline{\hspace{2cm}}$ [in the simplest form] [Port Said 24]
 A. 7 : 3 B. 1 : 3 C. 3 : 7 D. 3 : 1
4. The ratio between the two numbers 11 : 22 in simplest form is $\underline{\hspace{2cm}}$ [Giza 24]
 A. 1 : 1 B. 1 : 2 C. 2 : 1 D. 11 : 2
5. The simplest form of $15 : 25 = \underline{\hspace{2cm}}$ [El Menia 24]
 A. 5 : 3 B. 3 : 5 C. 1 : 3 D. 3 : 1
6. The ratio $12 : 18 = \underline{\hspace{2cm}} : \underline{\hspace{2cm}}$ [in the simplest form] [El Monofia 24]
 A. 6 : 8 B. 3 : 4 C. 4 : 6 D. 2 : 3
7. Which of the following is the simplest form of $16 : 24$? [Luxor 24]
 A. 8 : 12 B. 4 : 6 C. 2 to 3 D. $\frac{3}{2}$
8. The ratio between the two numbers 40 : 80 in the simplest form is $\underline{\hspace{2cm}}$ [Giza 24]
 A. 1 : 1 B. 1 : 2 C. 2 : 1 D. 11 : 2

9. The ratio 200 to 350 = _____ [in the simplest form]

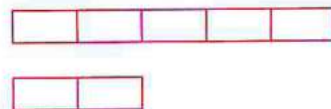
[Cairo 24]

A. $\frac{2}{35}$ B. 4 : 7 C. 7 to 4 D. 5 : 7

10. The opposite tape diagram represents the ratio _____

[Alex. 24]

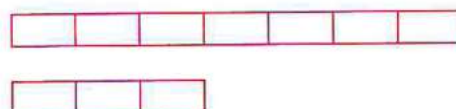
A. 3 : 5 B. 5 : 2
C. 5 : 1 D. 5 : 5



11. The tape diagram represents the ratio _____

[Cairo 24]

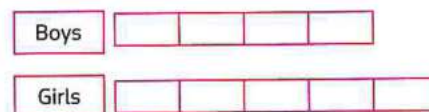
A. 3 : 6 B. 1 : 2
C. 7 : 3 D. $\frac{6}{4}$



12. In the tape diagram if the number of boys is 20, then the number of girls is _____

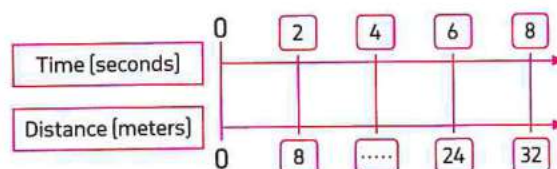
[Souhag 24]

A. 16 B. 20
C. 25 D. 30



13. The missing number in the opposite double number line is _____

A. 8 B. 12
C. 16 D. 18



[Luxor 24]

14. From the opposite equivalent ratios, A + B = _____

[Cairo 24]

A. 68 B. 61
C. 66 D. 65

4	20	B
9	A	36

15. The ratio 2 : 3 is equivalent to 12 : _____

[Cairo 24]

A. 9 B. 12 C. 15 D. 18

16. $\frac{6}{7}$ is equivalent to _____

[Giza 24]

A. $\frac{7}{6}$ B. $\frac{18}{24}$ C. $\frac{42}{49}$ D. $\frac{35}{30}$

17. $\frac{\quad}{2} = \frac{45}{18}$

[Port Said 24]

A. 5 B. 9 C. 4 D. 6

18. If $\frac{a}{b} = \frac{c}{d}$, which of the following is true?

[Cairo 24]

A. $a \times b = c \times d$ B. $a \times c = b \times d$ C. $a \times d = c \times b$ D. $c \times b = d \times b$

19. If the ratio between the number of red pens to the number of blue pens is 2 : 5 and the number of blue pens is more than the number of red pens by 9 pens , then the sum of all pens is _____ [Cairo. 24]
- A. 7 B. 10 C. 4 D. 21
20. If $\frac{5}{7} = \frac{x}{21}$, then x = _____ [Cairo 24]
- A. 15 B. 5 C. 10 D. 35
21. $\frac{5}{x} = \frac{10}{12}$, then x = _____ [Alex. 24]
- A. 4 B. 6 C. 15 D. 24
22. If 2 : 7 is equivalent to x : 21 , then x = _____ [El Menia 24] [Souhag 24]
- A. 6 B. 7 C. 12 D. 21
23. If 3 : 7 is equivalent to 21 : y , then y = _____ [Qena 24]
- A. 11 B. 35 C. 21 D. 49
24. If the ratio $9 : 27 = 1 : b$, then b + 3 = _____ [El Monofia 24]
- A. 3 B. 9 C. 6 D. 27
25. $7.3 : 0.5$ _____ $73 : 5$ [El Monofia 24]
- A. > B. < C. =
26. The ratio between two side lengths of a square is _____ [Giza 24]
- A. 1 : 1 B. 1 : 2 C. 1 : 4 D. 2 : 1
27. The ratio between the side length of a square and its perimeter is _____ [Cairo 24]
- A. 1 : 4 B. 2 : 4 C. 1 : 2 D. 1 : 1
28. If $\frac{8}{x}$ is equivalent to $\frac{1}{2}$, then x = _____ [Cairo 24]
- A. 4 B. 8 C. 16 D. 40
29. If the ratio between two numbers is 2 : 5 and their sum is 35 , then the greater number is _____ [Cairo 24]
- A. 4 B. 13 C. 7 D. 25
30. If the ratio between two numbers is 3 : 5 and the greater number is 15 , then the smaller number is _____ [El Beheira 24]
- A. 25 B. 5 C. 9 D. 8
31. The ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of the red balls is 24 , then the number of the blue balls is _____ [Giza 24]
- A. 18 B. 32 C. 12 D. 44

UNIT 9

32. If the ratio between the number of boys and the number of girls at a school is 3 : 4 and the number of boys is 300 , then the number of girls = _____ [Giza 24]
A. 300 B. 800 C. 400 D. 100
33. If the ratio between number of oranges and the number of apples is 3 : 5 and the number of apples is 15 , then the number of oranges is _____ [Cairo 24]
A. 3 B. 5 C. 9 D. 15

3. Answer the following.

1. If the ratio between the number of boys and the number of girls is 7 : 6 and the number of girls is 42 , then find : [Cairo 24]
a. The number of boys.
b. The total number of pupils.

2. The ratio between number of boys and the number of girls in a class is 4 : 5 and the number of boys is 20.
Find the total number of pupils. [Alex. 24]

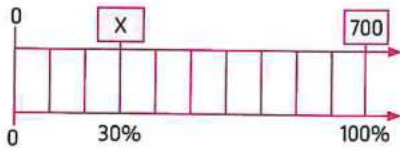
3. Find the value of x : $\frac{x}{8} = \frac{3}{6}$ [Cairo 24]

1. Complete.

1. $\frac{2}{5} = \text{————} \%$ [El Beheira 24]
2. $\frac{x}{4} = 25 \%$, then $x = \text{————}$ [Cairo 24]
3. $1 - 25 \% = \text{————} \%$ [Cairo 24]
4. 30% of $100 = \text{————}$ [Giza 24]
5. 70% of 210 is ———— [Alex. 24]
6. $33\frac{1}{3} \%$ of $60 = \text{————}$ [Luxor 24]
7. 30% of $50 \text{ kg} = \text{————} \text{ kg}$. [Cairo 24]
8. 15% of $240 \text{ kg} = \text{————} \text{ kg}$. [El Menia 24]
9. $4.8 \text{ km} = \text{————} \text{ meters}$. [Cairo 24]
10. $2\frac{1}{4} \text{ day} = \text{————} \text{ hours}$. [Cairo 24]
11. $3.4 \text{ L} = \text{————} \text{ mL}$ [Cairo 24]
12. $\frac{48 \text{ km}}{1 \text{ hr}} \times \frac{1,000 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{\text{——} \text{ m}}{\text{——} \text{ min}}$ [Cairo 24]
13. $1.75 \text{ km} \times \frac{\text{————}}{\text{————}} = \text{————} \text{ m}$. [Alex. 24]
14. $4.8 \text{ L} \times \frac{\text{————}}{\text{————}} = 4,800 \text{ mL}$. [Cairo 24]
15. 20% of pupils in the class is 5 pupils, then the total number of pupils in the class is ———— [Luxor 24]
16. If the percent of boys in a school is 62% , then the percent of girls is $\text{————} \%$ [Cairo 24]
17. If 10% of an amount of money is 50 L.E. , then the total amount is $\text{————} \text{ L.E.}$ [El Monofia 24]
18. From the opposite number line the unit rate is ————
19. $150 \text{ km per } 3 \text{ hours} = \text{————} \text{ km per hour}$. [Cairo 24]
20. A motorcycle covers 160 km in 4 hours , then the rate of the speed is $\text{————} \text{ km/hr}$ [Giza 24]
21. $18 \text{ km per hour} = \text{————} \text{ m per min}$. [Luxor 24]
22. The unit rate of an agriculture machine plough 16 feddan in 2 hours is ———— [El Beheira 24]

2. Choose the correct answer.

1. $\frac{1}{2} = \text{————} \%$ [Cairo 24]
 A. 25 B. 50 C. 55 D. 100
2. $\frac{1}{4} = \text{————} \%$ [El Beheira 24]
 A. 40 B. 10 C. 50 D. 25
3. 100 % is equivalent to ————— [Alex. 24]
 A. 100 B. 10 C. 1 D. 0.1
4. 5 to 10 = ————— % [Cairo 24]
 A. 50 B. 5 C. 0.5 D. 20
5. 90 % – 75 % = ————— % [Giza 24]
 A. 175 B. 15 C. 25 D. 2.5
6. 1 – 75 % = ————— % [Cairo 24]
 A. 0.25 B. 25 C. 2.5 D. 30
7. $1 - [20 \% + 35 \%] = \text{————} \%$ [Giza 24]
 A. 45 B. 4.5 % C. $\frac{9}{20}$ D. 0.045
8. $1 - [39 \% + 0.21] = \text{————} \%$ [Alex. 24]
 A. 0.4 B. 4 C. 25 D. 40
9. 25 % of 140 = ————— [Cairo 24]
 A. 35 B. 80 C. 70 D. 4
10. 20 % of 40 = ————— [Cairo 24]
 A. 800 B. 8 C. 80 D. 0.8
11. 60 % of 40 = ————— [Cairo 24]
 A. 4 B. 24 C. 240 D. 18
12. 12 % of 300 = ————— [Cairo 24]
 A. 12 B. 24 C. 36 D. 48
13. 30 % of 50 kg = ————— kg. [Luxor 24]
 A. 5 B. 10 C. 15 D. 20
14. 20 % from 90 pounds = ————— pounds. [El Monofia 24]
 A. 9 B. 18 C. 27 D. 180
15. If the percentage of boys in a school is 52 % , then the percentage of girls is ————— % [El Menia 24]
 A. 52 B. 48 C. 0.48 D. 0.52

16. If the percentage of success in a school is 85 % , then the percentage of failure is _____ % [Port Said 24]
 A. 100 B. 20 C. 15 D. 85
17. From the opposite double number line  [El Menia 24]
 , x = _____
 A. 70 B. 140
 C. 210 D. 420
18. 20% of the students in a class are wearing black. There are 40 students in the class. How many students are wearing black ? [Luxor 24]
 A. 4 B. 8 C. 12 D. 16
19. Ahmed got 100 % in the math exam , so he answered correctly _____ of the questions. [El Beheira 24]
 A. quarter B. half C. all D. otherwise
20. 22 % of 44 _____ 44 % of 22 [El Menia 24]
 A. > B. = C. <
21. _____ is a comparison between two quantities with different units. [Port Said 24]
 A. Rate B. Ratio C. Place value D. Otherwise
22. Which of the following is not a unit rate ? [El Beheira 24]
 A. 5 cards per a player. B. 3 km per an hour.
 C. 3 cups per 7 loaves of bread. D. 30 L.E. per a toy.
23. 180 km per hour = _____ m per min. [Cairo 24]
 A. 3 B. 30 C. 300 D. 3,000
24. 60 m per min = _____ m per sec. [Giza 24]
 A. 1 B. 10 C. 100 D. 1,000
25. Which of the following is conversion factor ? [Cairo 24]
 A. $\frac{3 \text{ km}}{1 \text{ hr}}$ B. $\frac{60 \text{ min}}{1 \text{ sec}}$ C. $\frac{1 \text{ week}}{7 \text{ days}}$ D. $\frac{1 \text{ day}}{100 \text{ m}}$
26. Which of the following is not a unit rate ? [Luxor 24]
 A. 140 L.E. weekly. B. 90 km per 60 minutes.
 C. 25 L.E. for each kg. D. $\frac{1}{2}$ kg of flour per a cake.
27. Which of the following is a unit rate ? [Cairo 24]
 A. 30 L.E. per 5 kg. B. 450 km per 3 hours.
 C. 90 km per hour. D. 540 km per 20 liter.
28. Soad read 45 pages in 15 days , then the rate of her performance = _____ pages/day. [El Monofia 24]
 A. 8 B. 12 C. 3 D. 20

29. A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers _____ km per liter. [El Menia 24] [Cairo 24]
- A. 1 B. 5 C. 10 D. 20
30. If a car covered 180 km in 3 hours , then the car covers _____ km in 2 hours. [Cairo 24]
- A. 60 B. 120 C. 180 D. 740
31. 36 L.E. for 6 kg , then the cost of 3 kg is _____ L.E. [Cairo 24]
- A. 2 B. 12 C. 16 D. 18
32. 0.25 kg = _____ gm. [Cairo 24]
- A. 25 B. 250 C. 2,500 D. 25,000
33. 360 sec = _____ hour[s] [El Menia 24] [Cairo 24]
- A. 60 B. 10 C. 3,600 D. 0.1
34. $\frac{1 \text{ km}}{1000 \text{ m}}$ is a conversion factor. [Giza 24]
- A. 1000 m B. 100 m C. 1 m D. 10 m
35. $\frac{1 \text{ kg}}{1000 \text{ g}}$ is a conversion factor. [Alex. 24]
- A. 2 hours B. 100 cm C. 1,000 g D. 1,000 m
36. $9 \text{ km} \times \frac{1000 \text{ m}}{1 \text{ km}} = 9,000 \text{ m}$ [El Monofia 24] [Cairo 24]
- A. $\frac{1,000 \text{ m}}{1 \text{ km}}$ B. $\frac{1,000 \text{ g}}{1 \text{ kg}}$ C. $\frac{100}{1 \text{ km}}$ D. $\frac{1 \text{ km}}{1,000 \text{ m}}$

3. Answer the following.

1. 80 children from a school went to a trip and this is 40 % of all children in the school.
How many children are in the school in all ? [Giza 24]
- _____
2. If the number of pupils in a school is 700. One day 10 % of them were absent, find the number of the present pupils that day. [El Monofia 24]
- _____
3. Sara bought a car for 200,000 L.E. , she paid 10 % of its price.
How much money did she pay ? [Giza 24]
- _____
4. If the zoo receives 800 kg of food daily , and the percentage eaten by zebra is 60 %.
Find the number of kilograms that the zebra eats. [El Beheira 24]
- _____

5. A man bought a T.V. set. He was given a 15 % discount of its marked price was 8,500 L.E.
Find its price after discount. [Luxor 24]
-
6. On the sale , a shop offers a discount 20 % , if the price of a dress is 1,600 LE
Find the price of it after discount. [Cairo 24]
-
7. The price of a T.V. is 8,500 L.E. with discount 10 %. Calculate the discount value. [Cairo 24]
-
8. Ahmed bought a flat for 420,000 L.E. , he paid 20 % of its price.
How much money did he pay ? [Cairo 24]
-
9. A dinner bill is 400 L.E. There's a 10 % tax. Calculate the bill after adding the tax. [Alex. 24]
-
10. The price of a T.V. set is 20,000 L.E. The T.V. is on sale for 15 % on a white Friday sale.
Find the selling price of the T.V. [Cairo 24]
-
11. Mona ate 4 apples of 20 apples. Find the percentage of the number of apples she ate. [Port Said 24]
-
12. A factory produces 7,200 bottles of soda in 8 hours. What is the rate of production ? [Cairo 24]
-
13. Two machines produce cloth , the first one produce 365 meters in 5 hours and the second produce 480 meters in 6 hours. Which machine is better ? [Cairo 24]
-
14. In a mathematics exam , Youssef got 38 marks of 40 marks.
Find the percentage of the marks he got. [El Menia 24]
-

March Tests

Till lesson 7 unit 10

Test 1



1. Choose the correct answer.

1. $\frac{1 \text{ km}}{1000}$ is a conversion factor.

A. 2 hours

B. 100 cm

C. 1,000 km

D. 1,000 m

2. If the ratio between two numbers is 3 : 5 and the smaller one is 15, then the greater one is _____

A. 9

B. 25

C. 16

D. 34

3. $13.31 \div 1.1 = \text{_____} \div 11$

A. 1,331

B. 1.331

C. 13.31

D. 133.1

2. Answer the following questions.

(5 marks)

1. Find the value of m if. $\frac{3}{4} \times m = \frac{3}{8}$

2. Use model to calculate $\frac{3}{4} \div 6$

3. Find. $6.3 \div 0.09$

4. Find the value of x if. $\frac{x-1}{5} = \frac{20}{25}$

5. A runner covered $\frac{4}{5}$ kilometer in 4 laps. How many kilometers did he cover in one lap ?

6. The ratio between the number of cats and the number of dogs is 2 : 5 and their sum of is 63. Find the number of each by using the tape diagram.

7. If the price of one meter of cloth is 6.45 L.E.

What is the cost of 3.6 meters of cloth ?

1. Choose the correct answer.

1. $45\% + 0.55 =$ _____

A. 1%

B. 100

C. 1

D. 0.1

2. From the opposite figure ,
the ratio $AB : CB =$ _____

A. 3 : 4

B. 2 : 3

C. $\frac{2}{4}$

D. 2 : 5

3. $\frac{3}{4} \div \frac{9}{16} =$ _____

A. $\frac{4}{3}$

B. $\frac{3}{4}$

C. $\frac{27}{64}$

D. $\frac{64}{27}$



2. Answer the following questions.

1. Find the value of x if. $\frac{4}{7} = \frac{x+3}{28}$

2. Find. 6.3×0.05

3. The number of children in a nursery is 100 , if 40 % of them are vaccinated.
What is the number of the vaccinated children in this nursery ?

4. Salah bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 6 kg ?

5. If the price of 1 kg of orange is 25.4 L.E. Find the price of 1.5 kg.

6. Each stone block in the Great Pyramid has a mass of about 2,300 kilograms.
About how much is the mass of one block in grams ?

7. If Wael has 45 L.E. and Sameh has 35 L.E.
Find the ratio between what Wael has to the total money with them.

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

المراجعة رقم (2)

اختبار شهر مارس



First Choose the correct answer:

2

- 1 If the price of a watch is 140 pounds, then 20% of its price represents pounds.

a) 140 b) 28 c) 0.2 d) 112

- 2 The reciprocal of 0.2 is

a) $\frac{1}{2}$ b) 0.2 c) 5 d) $\frac{1}{5}$

Second Answer each of the following:

8

- 1 If Salma has 35 pounds and Sofia has 40 pounds. Find the ratio between what Sofia has and the total sum of money in simplest form.

.....
.....

- 2 Find the quotient of:

$$45.2 \div 0.4$$

.....
.....

- 3 Khaled covers 4 km in 2 hours, find the distance he covers in 8 hours with the same rate.

.....
.....

- 4 If the length of a squared paper is $5\frac{3}{4}$ cm, find its perimeter.

.....
.....

First Choose the correct answer:

2

- 1 If $123 \times 45 = 5,535$, then $1.23 \times 4.5 = \dots\dots\dots$.
 a) 5.535 b) 55.35 c) 553.5 d) 5,535
- 2 To find the simplest form of the ratio **8 : 24**, we divide the two terms by $\dots\dots\dots$.
 a) 3 b) 8 c) 12 d) 24

Second Answer each of the following:

8

- 1 If the ratio between the number of boys and girls in a school is **5 : 7** and the number of all students is **420** students, **find the number of boys and girls in the school.**

- 2 Find the product of:

$$3.2 \times 0.04$$

.....

- 3 Aliaa used $\frac{2}{5}$ a cup of flour to make **2** pieces of cookies, then **what is the amount of flour she needs to make 4 pieces of cookies?**

- 4 Complete:

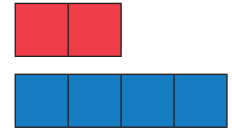
(a) The next ratio of 1 : 3 , 2 : 6 , 4 : 12 , $\dots\dots\dots$.

(b) $12 \text{ km} \times \dots\dots\dots = \dots\dots\dots \text{ m}$

First Choose the correct answer:

2

- 1 In the opposite figure, the ratio between the number of red squares and number of blue squares =

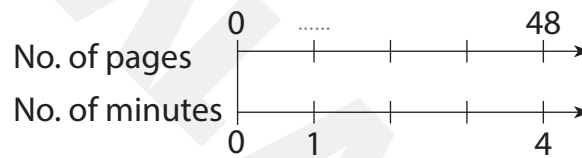


- a) 4 : 2 b) 3 : 4 c) 2 : 4 d) 2 : 3
- 2 Fourth of 12 0.25
- a) < b) > c) = d) otherwise

Second Answer each of the following:

8

- 1 From the opposite double number line, find the unit rate.



- 2 Ahmed has a gift-wrapping ribbon that is 2 meters long. He needs to cut it into pieces, each $\frac{2}{3}$ of a meter long. How many pieces will he get?
- 3 If the ratio between number of boys and girls in a party is 3 : 5 and the number of girls is 20 girls, find the number of boys.

- 4 Show if the following ratios are equivalent or not:

(a) $\frac{18}{27}$, $\frac{20}{24}$

(b) $\frac{9}{15}$, $\frac{15}{25}$

(a)

(b)

First Choose the correct answer:

2

- 1 If the price of a watch is 140 pounds, then 20% of its price represents pounds.

a) 140 b) 28 c) 0.2 d) 112

- 2 The reciprocal of 0.2 is

a) $\frac{1}{2}$ b) 0.2 c) 5 d) $\frac{1}{5}$

Second Answer each of the following:

8

- 1 If Salma has 35 pounds and Sofia has 40 pounds. Find the ratio between what Sofia has and the total sum of money in simplest form.

The ratio between what Sofia has and the total sum of money = 40 : 75
= 8 : 15

- 2 Find the quotient of:

$$45.2 \div 0.4$$

45.2 $\div$ 0.4 multiply the two numbers by 10

$$452 \div 4 = 113$$

$$\begin{array}{r} 113 \\ 4 \overline{) 452} \\ \underline{4} \\ 05 \\ \underline{4} \\ 12 \\ \underline{12} \\ 00 \end{array}$$

- 3 Khaled covers 4 km in 2 hours, find the distance he covers in 8 hours with the same rate.

$$\frac{4 \text{ km}}{2 \text{ hours}} = \frac{?}{8 \text{ hours}}$$

The distance he covers in 8 hours = 16 km

- 4 If the length of a squared paper is $5\frac{3}{4}$ cm, find its perimeter.

The perimeter = side length $\times$ 4

$$= 5\frac{3}{4} \times 4 = \frac{23}{4} \times 4 = 23 \text{ cm}$$

First Choose the correct answer:

2

- 1 If $123 \times 45 = 5,535$, then $1.23 \times 4.5 = \dots\dots\dots$.
 a) 5.535 b) 55.35 c) 553.5 d) 5,535
- 2 To find the simplest form of the ratio 8 : 24, we divide the two terms by $\dots\dots\dots$.
 a) 3 b) 8 c) 12 d) 24

Second Answer each of the following:

8

- 1 If the ratio between the number of boys and girls in a school is 5 : 7 and the number of all students is 420 students, find the number of boys and girls in the school.

The value of a part = $420 \div 12 = 35$

then, the number of boys = $5 \times 35 = 175$ boys

The number of girls = $7 \times 35 = 245$ girls

- 2 Find the product of:

$$3.2 \times 0.04$$

$$\therefore 32 \times 4 = 128$$

$$\therefore 3.2 \times 0.04 = 0.128$$

$$\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \end{array}$$

- 3 Aliaa used $\frac{2}{5}$ a cup of flour to make 2 pieces of cookies, then what is the amount of flour she needs to make 4 pieces of cookies?

The amount of flour used to make one piece = $\frac{2}{5} \div 2 = \frac{1}{5}$ a cup of flour

, then the amount used to make 4 pieces of cookies = $\frac{1}{5} \times 4 = \frac{4}{5}$ a cup of flour

- 4 Complete:

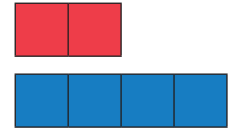
(a) The next ratio of 1 : 3 , 2 : 6 , 4 : 12 , 8 : 24 .

(b) $12 \text{ km} \times \frac{1,000 \text{ m}}{1 \text{ km}} = 12,000 \text{ m}$

First Choose the correct answer:

2

- 1 In the opposite figure, the ratio between the number of red squares and number of blue squares =

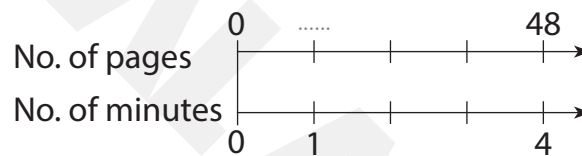


- a) 4 : 2 b) 3 : 4 c) 2 : 4 d) 2 : 3
- 2 Fourth of 12 0.25
- a) < b) > c) = d) otherwise

Second Answer each of the following:

8

- 1 From the opposite double number line, find the unit rate.



The unit rate = $\frac{48 \text{ pages}}{4 \text{ minutes}} = 12 \text{ pages per minute}$

- 2 Ahmed has a gift-wrapping ribbon that is 2 meters long. He needs to cut it into pieces, each $\frac{2}{3}$ of a meter long. How many pieces will he get?

The number of pieces he gets = $2 \div \frac{2}{3} = 3 \text{ pieces}$

- 3 If the ratio between number of boys and girls in a party is 3 : 5 and the number of girls is 20 girls, find the number of boys.

$$\frac{3}{5} = \frac{?}{20 \text{ girls}}$$

The number of boys = 12 boys

- 4 Show if the following ratios are equivalent or not:

(a) $\frac{18}{27}, \frac{20}{24}$

(b) $\frac{9}{15}, \frac{15}{25}$

(a) $18 \times 24 = 432$

(b) $9 \times 25 = 225$

$27 \times 20 = 540$

$15 \times 15 = 225$

The two ratios aren't equivalent

The two ratios are equivalent

حمل الآن

مجانا وحصريا

المراجعة رقم (3)

اختبار شهر مارس



Model (1)



First Question 1 Choose the correct answer:

- (1) The percentage that represents 20 pounds of 400 pounds is
 (a) 10 % (b) 5 % (c) 20 % (d) 15 %
- (2) The reciprocal of the fraction $\frac{3}{9}$ is
 (a) $\frac{3}{9}$ (b) $\frac{9}{9}$ (c) $\frac{9}{3}$ (d) 1
- (3) The quotient of $(\frac{1}{4} \div \frac{3}{8})$ is
 (a) 3 (b) $\frac{2}{3}$ (c) $\frac{3}{2}$ (d) $\frac{1}{3}$
- (4) $0.236 \times 0.1 =$
 (a) 23.6 (b) 0.0236 (c) 2.36 (d) 2360
- (5) $\frac{3}{5} \times \dots = 1$
 (a) $\frac{5}{3}$ (b) 1 (c) 0 (d) $\frac{3}{5}$
- (6) $18 : 30 = \dots : \dots$ (in the simplest form)
 (a) 3 : 6 (b) 1 : 3 (c) 8 : 30 (d) 3 : 5
- (7) The second term in the ratio 3 : 4 is
 (a) 3 (b) 4 (c) 3×4 (d) $3 + 4$
- (8) The ratio between the two side length of a square is
 (a) 1 : 2 (b) 2 : 1 (c) 1 : 1 (d) 1 : 4
- (9) In the following tape diagram the ratio between the number of rabbits to the number of foxes is
 Rabbits

--	--	--	--	--

 Foxes

--	--	--

 (a) 2 : 5 (b) 2 : 2 (c) 5 : 2 (d) 5 : 7

Second Question 2 Answer the following:

- (1) Find the product of: $\frac{5}{9} \times 27 =$
- (2) If $\frac{2}{3} = \frac{12}{x}$, then $x + 2 =$
- (3) The ratio between the number of bees and the number of butterflies in the garden is 2 : 7 and their sum is 54. Find the number of each by using the tape diagram.

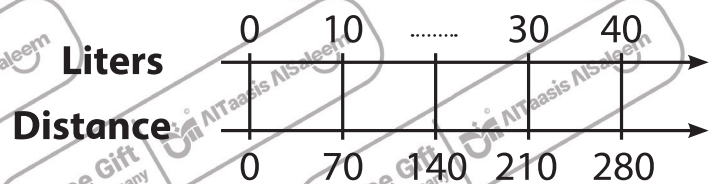
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- (4) : Are the two ratios 9 : 6 and 18 : 12 equivalent?

: They are

- (5) From the following double number line, the number of liters of gasoline needed to travel a distance of 140 km = liters.



- (6) **Complete:**

a The unit rate that is equivalent to the rate of 30 kilometers per 5 hours. The answer is

b $12 \times 3.6 =$

c $6 \div \frac{3}{4} =$

Model (2)



First Question 1 Choose the correct answer:

- (1) The quotient of $\frac{5}{8} \div 2 =$
 (a) 10 (b) $\frac{5}{4}$ (c) $\frac{5}{16}$ (d) 16
- (2) The reciprocal of 6 is
 (a) 1 (b) 0 (c) -6 (d) $\frac{1}{6}$
- (3) $\times \frac{2}{3} = 1$
 (a) $1 \frac{2}{3}$ (b) $\frac{2}{3}$ (c) $\frac{3}{2}$ (d) $1 \frac{1}{3}$
- (4) $\frac{1}{5} \div \frac{1}{2}$ $\frac{2}{3}$
 (a) < (b) = (c) > (d) otherwise
- (5) The first term in the ratio $\frac{7}{8}$ is
 (a) 7 (b) 8 (c) 17 (d) 78
- (6) Which of the following is the simplest form of 12 : 36 ?
 (a) 1 : 3 (b) 3 : 6 (c) 1 : 13 (d) 1 : 2
- (7) The ratio that is NOT equivalent to $\frac{2}{3}$ is
 (a) $\frac{6}{12}$ (b) $\frac{4}{6}$ (c) $\frac{6}{9}$ (d) $\frac{8}{12}$
- (8) 15 % = 10 % +
 (a) 1 % (b) 5 % (c) 10 % (d) 20 %
- (9) A milk bottle has a capacity of 2.5 liters, so its capacity in milliliters is
 (a) 25 (b) 250 (c) 2,500 (d) 2,050

Second Question 2 Answer the following:

(1) Find the quotient: $1.4 \div 0.2$

(2) **Complete:**

a Half of $\frac{3}{7} =$

b The amount that represents 12 % of 300 pounds is

(3) If 6 is $\frac{1}{4}$ of a number, then this number is

(4) If $24 \times 36 = 864$, then $0.24 \times 3.6 =$

(5) 450 km per 5 hours. Find the unit rate using the ratio table.

Number of km.	.....	.....
Number of hr.	.....	.....

(6) **True or false:**

a $\frac{4}{5} \div \frac{2}{3} = \frac{4}{5} \times \frac{2}{3}$ (.....)

b $3.6 \div 1.8 = 2$ (.....)

(7) If the ratio between two numbers is 2 : 5 and the greater number is 15, then the smaller number is

Model (3)



First Question 1 Choose the correct answer:

- (1) If $3 : 5$ is equivalent to $15 : x$, then $x =$
 (a) 3 (b) 5 (c) 15 (d) 25
- (2) The simplest form of $10 : 50 =$
 (a) $2 : 5$ (b) $1 : 5$ (c) $5 : 10$ (d) $1 : 10$
- (3) 1 ton = kg
 (a) 10 (b) 100 (c) 1,000 (d) 0.001
- (4) $2 : 3 =$: 18
 (a) 30 (b) 13 (c) 18 (d) 12
- (5) The missing number in the pattern $\frac{1}{2}, \frac{2}{4}, \frac{\dots}{8}$ is
 (a) 4 (b) 3 (c) 6 (d) 7
- (6) $2.8 : 0.7$ $28 : 7$
 (a) $>$ (b) $<$ (c) $=$ (d) otherwise
- (7) The conversion factor used to convert from years to months is
 (a) $\frac{1 \text{ year}}{12 \text{ months}}$ (b) $\frac{1 \text{ year}}{1 \text{ month}}$ (c) $\frac{1 \text{ month}}{12 \text{ months}}$ (d) $\frac{12 \text{ months}}{1 \text{ year}}$
- (8) has no reciprocal.
 (a) 0 (b) 1 (c) 2 (d) 6
- (9) If 18 % of a number equals 36, then the number is
 (a) 100 (b) 200 (c) 300 (d) 400

Second Question 2 Answer the following:

(1) Find the quotient:

a $5 \div \frac{1}{3} =$

b $3.2 \div 0.32 =$

c $\frac{2}{5} \div 4 =$

d $\frac{1}{2} \div \frac{5}{10} =$

(2) If $2 : 7$ is equivalent to $20 : y$, then $y =$

(3) Put $(>)$, $(<)$ or $(=)$:

a $\frac{1}{3} \times \frac{1}{2}$ (.....) 6

b 7 pens of 28 pounds (.....) 10 pens for 30 pounds

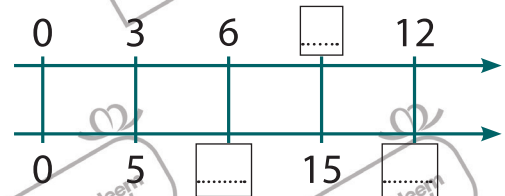
(4) From the following equivalent ratios,

$A + B =$

5	20	B
9	A	45

(5) Find the missing number in the following double number line using the given ratio:

$3 : 5$



(6) Show which of the following ratios are equivalent:

a $\frac{10}{12}, \frac{18}{27}$

b $\frac{8}{6}, \frac{12}{9}$

(7) Amal spends 15.5 minutes working on her computer.

Calculate the time she spends in seconds.

The time in seconds =

Model (4)



First Question 1 Choose the correct answer:

- (1) If $\frac{3}{7} = \frac{A}{35}$, then A =
 (a) 5 (b) 9 (c) 12 (d) 15
- (2) 20 : 30 in the simplest form =
 (a) 2 : 3 (b) 3 : 5 (c) 3 : 7 (d) 2 : 7
- (3) 1 liter = milliliters.
 (a) 10 (b) 100 (c) 1,000 (d) 0.001
- (4) The multiplication operation 1.5×2.3 is equivalent to
 (a) $\frac{15}{100} \times \frac{23}{100}$ (b) $\frac{15}{10} \times \frac{23}{10}$ (c) $\frac{15}{100} \times \frac{23}{10}$ (d) $\frac{15}{10} \times \frac{23}{100}$
- (5) The least common denominator for the two fractions $\frac{3}{8}, \frac{1}{3}$ is
 (a) 15 (b) 21 (c) 24 (d) 18
- (6) 1 gram = kg.
 (a) 1,000 (b) 0.001 (c) 10 (d) 100
- (7) $1.2 \times 1.2 =$
 (a) 144 (b) 14.4 (c) 1.44 (d) 0.144
- (8) $\frac{3}{4} \div \dots = 1$
 (a) $\frac{4}{3}$ (b) $\frac{3}{3}$ (c) $\frac{3}{4}$ (d) 1
- (9) 30 % =
 (a) 0.2 (b) 0.3 (c) 0.5 (d) 0.6

Second Question 2 Answer the following:

- (1) The ratio between two quantities with different units is called a
- (2) Find the quotient: $0.32 \div 0.008 =$
- (3) **Express each ratio as a fraction in the simplest form:**
 - a 6 beetles out of 10 insects
 - b 42 blue cars out of 48 cars
- (4) Find the product of: $3.6 \times 0.12 =$
- (5) **Find the value of n in each of the following:**
 - a $1.6 \times n = 1600$,
 - b $\frac{5}{6} \times n = \frac{5}{12}$,
 - c $n \times \frac{3}{11} = \frac{6}{33}$,
 - d $\frac{3}{8} \times n = 1$,
- (6) Complete the given table to make the ratios equivalent.

$\div 2$		7		1	$\times 2$
	16		10	2	
- (7) Bassem bought $\frac{9}{5}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.
Find the number of pieces that can be made.
Number of pieces =

Model (5)



First Question 1 Choose the correct answer:

- (1) $48.7 \div 0.01 = \dots\dots\dots$
 (a) 4870 (b) 0.487 (c) 4.87 (d) 48.07
- (2) The ratio between the two numbers 11 : 33 in simplest form is $\dots\dots\dots$
 (a) 1 : 1 (b) 1 : 2 (c) 1 : 3 (d) 11 : 3
- (3) 1 m = $\dots\dots\dots$ cm
 (a) 100 (b) 10 (c) 1,000 (d) 0.001
- (4) If $\frac{9}{y}$ is equivalent to $\frac{1}{5}$, then $y = \dots\dots\dots$
 (a) 54 (b) 45 (c) 18 (d) 36
- (5) The quotient of $(8 \div \frac{2}{3}) = \dots\dots\dots$
 (a) $\frac{12}{1}$ (b) 26 (c) $8 \frac{2}{3}$ (d) 24
- (6) 20 % = $\dots\dots\dots$
 (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$
- (7) $2.8 \div 0.04 = \dots\dots\dots$
 (a) 7 (b) 0.7 (c) 70 (d) 700
- (8) $\dots\dots\dots \div \frac{4}{5} = 0$
 (a) $\frac{5}{4}$ (b) 1 (c) 0 (d) $\frac{4}{5}$
- (9) If 9 to 10 is equivalent to 72 : B, then B = $\dots\dots\dots$
 (a) 7 (b) 8 (c) 70 (d) 80

Second Question 2 Answer the following:

(1) How many $\frac{1}{3}$ in the number 5?

(2) The perimeter of a square-shaped paper is $\frac{1}{2}$ cm.
Find the length of each side of the paper.
.....

(3) If the second term is 6 and the first term is 5,
then the ratio is

(4) Complete the opposite equivalent
ratio table.

3	.....	.....	27
7	21	35	.....

(5) If the ratio between x and y is $3 : 2$ and the sum of x and y is 25,
then the greater number will be $x =$
.....

(6) Find the missing value B: $\frac{7}{11} = \frac{21}{B}$

(7) There are 24 crayons in 6 packs. What is the number of crayons in 3 packs
using the shown double number line:

Number of packs

Number of crayons



Answer: crayons

Model (1)



First Question 1 Choose the correct answer:

- (1) The percentage that represents 20 pounds of 400 pounds is
 (a) 10 % (b) 5 % (c) 20 % (d) 15 %
- (2) The reciprocal of the fraction $\frac{3}{9}$ is
 (a) $\frac{3}{9}$ (b) $\frac{9}{9}$ (c) $\frac{9}{3}$ (d) 1
- (3) The quotient of $(\frac{1}{4} \div \frac{3}{8})$ is
 (a) 3 (b) $\frac{2}{3}$ (c) $\frac{3}{2}$ (d) $\frac{1}{3}$
- (4) $0.236 \times 0.1 =$
 (a) 23.6 (b) 0.0236 (c) 2.36 (d) 2360
- (5) $\frac{3}{5} \times \dots = 1$
 (a) $\frac{5}{3}$ (b) 1 (c) 0 (d) $\frac{3}{5}$
- (6) $18 : 30 = \dots : \dots$ (in the simplest form)
 (a) 3 : 6 (b) 1 : 3 (c) 8 : 30 (d) 3 : 5
- (7) The second term in the ratio 3 : 4 is
 (a) 3 (b) 4 (c) 3×4 (d) $3 + 4$
- (8) The ratio between the two side length of a square is
 (a) 1 : 2 (b) 2 : 1 (c) 1 : 1 (d) 1 : 4
- (9) In the following tape diagram the ratio between the number of rabbits to the number of foxes is
 Rabbits

--	--	--	--	--

 Foxes

--	--	--

 (a) 2 : 5 (b) 2 : 2 (c) 5 : 2 (d) 5 : 7

Second Question 2 Answer the following:

(1) Find the product of: $\frac{5}{19} \times 27 = 15$

(2) If $\frac{2}{3} = \frac{12}{x}$, then $x + 2 = 20$ ($x = 18$)

- (3) The ratio between the number of bees and the number of butterflies in the garden is 2 : 7 and their sum is 54. Find the number of each by using the tape diagram.

$2 + 7 = 9, 54 \div 9 = 6$

bees

6	6
---	---

butterflies

6	6	6	6	6	6	6
---	---	---	---	---	---	---

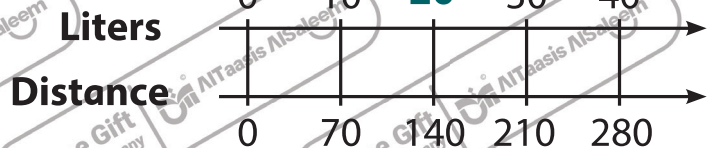
Number of bees is $2 \times 6 = 12$,

Number of butterflies is $7 \times 6 = 42$

- (4) : Are the two ratios 9 : 6 and 18 : 12 equivalent?

: They are **equivalent because** $\frac{9}{6} = \frac{3}{2}$ and $\frac{18}{12} = \frac{3}{2}$

- (5) From the following double number line, the number of liters of gasoline needed to travel a distance of 140 km = **20** liters.



- (6) **Complete:**

a The unit rate that is equivalent to the rate of 30 kilometers per 5 hours.

The answer is **6 km per hour**.

b $12 \times 3.6 = 43.2$

c $6 \div \frac{3}{4} = 6 \times \frac{4}{3} = \frac{24}{3} = 8$

Model (2)



First Question 1 Choose the correct answer:

- (1) The quotient of $\frac{5}{8} \div 2 =$
 (a) 10 (b) $\frac{5}{4}$ (c) $\frac{5}{16}$ (d) 16
- (2) The reciprocal of 6 is
 (a) 1 (b) 0 (c) -6 (d) $\frac{1}{6}$
- (3) $\times \frac{2}{3} = 1$
 (a) $1 \frac{2}{3}$ (b) $\frac{2}{3}$ (c) $\frac{3}{2}$ (d) $1 \frac{1}{3}$
- (4) $\frac{1}{5} \div \frac{1}{2}$ $\frac{2}{3}$
 (a) $<$ (b) $=$ (c) $>$ (d) otherwise
- (5) The first term in the ratio $\frac{7}{8}$ is
 (a) 7 (b) 8 (c) 17 (d) 78
- (6) Which of the following is the simplest form of 12 : 36 ?
 (a) 1 : 3 (b) 3 : 6 (c) 1 : 13 (d) 1 : 2
- (7) The ratio that is NOT equivalent to $\frac{2}{3}$ is
 (a) $\frac{6}{12}$ (b) $\frac{4}{6}$ (c) $\frac{6}{9}$ (d) $\frac{8}{12}$
- (8) $15 \% = 10 \% +$
 (a) 1 % (b) 5 % (c) 10 % (d) 20 %
- (9) A milk bottle has a capacity of 2.5 liters, so its capacity in milliliters is
 (a) 25 (b) 250 (c) 2,500 (d) 2,050

Second Question 2 Answer the following:

(1) Find the quotient: $1.4 \div 0.2 = \frac{1.4}{0.2} = \frac{14}{2} = 7$

(2) Complete:

a Half of $\frac{3}{7} = \frac{1}{2} \times \frac{3}{7} = \frac{3}{14}$

b The amount that represents 12 % of 300 pounds is

$\frac{12}{100} \times 300 = 36$ pounds.

(3) If 6 is $\frac{1}{4}$ of a number, then this number is 24

(4) If $24 \times 36 = 864$, then $0.24 \times 3.6 = 0.864$

(5) 450 km per 5 hours. Find the unit rate using the ratio table.

Number of km.	450	90
Number of hr.	5	1

(6) True or false:

a $\frac{4}{5} \div \frac{2}{3} = \frac{4}{5} \times \frac{2}{3}$

(False)

b $3.6 \div 1.8 = 2$

(True)

(7) If the ratio between two numbers is 2 : 5 and the greater number is 15, then the smaller number is 6

$2 : 5 = n : 15$

$n = \frac{2 \times 15}{5} = 6$

Model (3)



First Question 1 Choose the correct answer:

- (1) If $3 : 5$ is equivalent to $15 : x$, then $x =$
 (a) 3 (b) 5 (c) 15 (d) 25
- (2) The simplest form of $10 : 50 =$
 (a) $2 : 5$ (b) $1 : 5$ (c) $5 : 10$ (d) $1 : 10$
- (3) 1 ton = kg
 (a) 10 (b) 100 (c) 1,000 (d) 0.001
- (4) $2 : 3 =$: 18
 (a) 30 (b) 13 (c) 18 (d) 12
- (5) The missing number in the pattern $\frac{1}{2}, \frac{2}{4}, \frac{\quad}{8}$ is
 (a) 4 (b) 3 (c) 6 (d) 7
- (6) $2.8 : 0.7$ $28 : 7$
 (a) $>$ (b) $<$ (c) $=$ (d) otherwise
- (7) The conversion factor used to convert from years to months is
 (a) $\frac{1 \text{ year}}{12 \text{ months}}$ (b) $\frac{1 \text{ year}}{1 \text{ month}}$ (c) $\frac{1 \text{ month}}{12 \text{ months}}$ (d) $\frac{12 \text{ months}}{1 \text{ year}}$
- (8) has no reciprocal.
 (a) 0 (b) 1 (c) 2 (d) 6
- (9) If 18 % of a number equals 36, then the number is
 (a) 100 (b) 200 (c) 300 (d) 400

Second Question 2 Answer the following:

(1) Find the quotient:

a $5 \div \frac{1}{3} = 5 \times 3 = 15$

b $3.2 \div 0.32 = 10$

c $\frac{2}{5} \div 4 = \frac{12}{5} \times \frac{1}{24} = \frac{1}{10}$

d $\frac{1}{2} \div \frac{5}{10} = \frac{1}{2} \times \frac{10^2}{15} = 1$

(2) If $2 : 7$ is equivalent to $20 : y$, then $y = \frac{10 \times 20 \times 7}{12} = 70$

(3) Put ($>$), ($<$) or ($=$):

a $\frac{1}{3} \times \frac{1}{2} (<) 6$

b 7 pens of 28 pounds ($>$) 10 pens for 30 pounds

(4) From the following equivalent ratios,

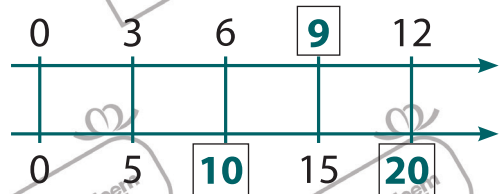
$A + B = 36 + 25 = 61$

5	20	B
9	A	45

(5) Find the missing number in the following

double number line using the given ratio:

$3 : 5$



(6) Show which of the following ratios are equivalent:

a $\frac{10}{12}, \frac{18}{27}$ $\frac{5}{6} \neq \frac{2}{3}$

b $\frac{8}{6}, \frac{12}{9}$ $\frac{4}{3} = \frac{4}{3}$

not equivalent

equivalent

(7) Amal spends 15.5 minutes working on her computer.

Calculate the time she spends in seconds.

The time in seconds = $15.5 \times 60 = 930$ seconds.

Model (4)



First Question 1 Choose the correct answer:

- (1) If $\frac{3}{7} = \frac{A}{35}$, then A =
 (a) 5 (b) 9 (c) 12 (d) 15
- (2) 20 : 30 in the simplest form =
 (a) 2 : 3 (b) 3 : 5 (c) 3 : 7 (d) 2 : 7
- (3) 1 liter = milliliters.
 (a) 10 (b) 100 (c) 1,000 (d) 0.001
- (4) The multiplication operation 1.5×2.3 is equivalent to
 (a) $\frac{15}{100} \times \frac{23}{100}$ (b) $\frac{15}{10} \times \frac{23}{10}$ (c) $\frac{15}{100} \times \frac{23}{10}$ (d) $\frac{15}{10} \times \frac{23}{100}$
- (5) The least common denominator for the two fractions $\frac{3}{8}, \frac{1}{3}$ is
 (a) 15 (b) 21 (c) 24 (d) 18
- (6) 1 gram = kg.
 (a) 1,000 (b) 0.001 (c) 10 (d) 100
- (7) $1.2 \times 1.2 =$
 (a) 144 (b) 14.4 (c) 1.44 (d) 0.144
- (8) $\frac{3}{4} \div \dots = 1$
 (a) $\frac{4}{3}$ (b) $\frac{3}{3}$ (c) $\frac{3}{4}$ (d) 1
- (9) 30 % =
 (a) 0.2 (b) 0.3 (c) 0.5 (d) 0.6

Second Question 2 Answer the following:

(1) The ratio between two quantities with different units is called a **rate**.

(2) Find the quotient: $0.32 \div 0.008 = 40$

(3) Express each ratio as a fraction in the simplest form:

a 6 beetles out of 10 insects $\frac{6}{10} = \frac{3}{5}$

b 42 blue cars out of 48 cars $\frac{42}{48} = \frac{7}{8}$

(4) Find the product of: $3.6 \times 0.12 = 0.432$

(5) Find the value of n in each of the following:

a $1.6 \times n = 1600$, $n = 1,000$

b $\frac{5}{6} \times n = \frac{5}{12}$, $n = \frac{1}{2}$

c $n \times \frac{3}{11} = \frac{6}{33}$, $n = \frac{2}{3}$

d $\frac{3}{8} \times n = 1$, $n = \frac{8}{3}$

(6) Complete the given table to make the ratios equivalent.

$\div 2$	8	7	5	1	$\times 2$
	16	14	10	2	

(7) Bassem bought $\frac{9}{5}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.

Find the number of pieces that can be made.

Number of pieces = $\frac{9}{5} \times \frac{5}{3} = \frac{45}{15} = 3$ pieces

Model (5)



First Question 1 Choose the correct answer:

(1) $48.7 \div 0.01 = \dots\dots\dots$

- (a) 4870 (b) 0.487 (c) 4.87 (d) 48.07

(2) The ratio between the two numbers 11 : 33 in simplest form is $\dots\dots\dots$

- (a) 1 : 1 (b) 1 : 2 (c) 1 : 3 (d) 11 : 3

(3) 1 m = $\dots\dots\dots$ cm

- (a) 100 (b) 10 (c) 1,000 (d) 0.001

(4) If $\frac{9}{y}$ is equivalent to $\frac{1}{5}$, then $y = \dots\dots\dots$

- (a) 54 (b) 45 (c) 18 (d) 36

(5) The quotient of $(8 \div \frac{2}{3}) = \dots\dots\dots$

- (a) 12 (b) 26 (c) $8 \frac{2}{3}$ (d) 24

(6) $20\% = \dots\dots\dots$

- (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$

(7) $2.8 \div 0.04 = \dots\dots\dots$

- (a) 7 (b) 0.7 (c) 70 (d) 700

(8) $\dots\dots\dots \div \frac{4}{5} = 0$

- (a) $\frac{5}{4}$ (b) 1 (c) 0 (d) $\frac{4}{5}$

(9) If 9 to 10 is equivalent to 72 : B, then B = $\dots\dots\dots$

- (a) 7 (b) 8 (c) 70 (d) 80



Second Question 2 Answer the following:

(1) How many $\frac{1}{3}$ in the number 5? $5 \div \frac{1}{3} = 5 \times 3 = 15$

(2) The perimeter of a square-shaped paper is $\frac{1}{2}$ cm.

Find the length of each side of the paper.

$$\text{Side length} = \text{perimeter} \div 4 = \frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \text{ cm}$$

(3) If the second term is 6 and the first term is 5, then the ratio is **5 : 6 or $\frac{5}{6}$**

(4) Complete the opposite equivalent ratio table.

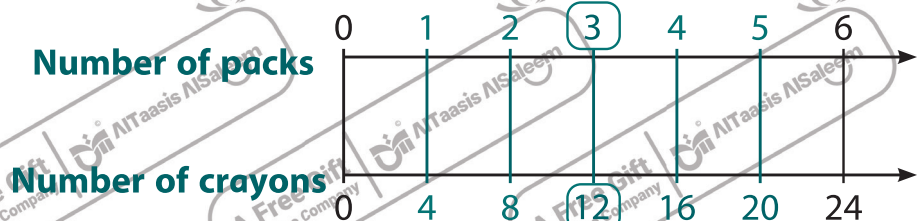
3	9	15	27
7	21	35	63

(5) If the ratio between x and y is $3 : 2$ and the sum of x and y is 25, then the greater number will be $x = 15$

$$2 + 3 = 5, \quad 25 \div 5 = 5, \quad \text{greater number} = 3 \times 5 = 15$$

(6) Find the missing value B: $\frac{7}{11} = \frac{21}{B} \rightarrow B = \frac{3}{1} \times \frac{21 \times 11}{7} = 33$

(7) There are 24 crayons in 6 packs. What is the number of crayons in 3 packs using the shown double number line:



Answer: **12** crayons

حمل الآن

مجانا وحصريا

المراجعة رقم (4)

اختبار شهر مارس



Q1: Choose the correct answer

1 The division operation represented by the following tape diagram is



(a) $3 \div \frac{1}{2}$

(b) $3 \div \frac{1}{3}$

(c) $3 \div \frac{1}{4}$

(d) $3 \div \frac{2}{5}$

2 The reciprocal of $\frac{1}{8}$ is

(a) -8

(b) 8

(c) $\frac{1}{8}$

(d) $-\frac{1}{8}$

3 The reciprocal of $3\frac{3}{4}$ is

(a) $\frac{15}{4}$

(b) $3\frac{4}{3}$

(c) $\frac{4}{15}$

(d) $3\frac{4}{15}$

4 $\frac{5}{7} \div \dots = 1$

(a) $\frac{5}{7}$

(b) 1

(c) $\frac{1}{5}$

(d) $\frac{7}{5}$

5 $\frac{3}{8} \times \dots = 1$

(a) $\frac{3}{8}$

(b) 1

(c) $\frac{8}{5}$

(d) $2\frac{2}{3}$

6 $\frac{1}{5} \times \frac{1}{5} = \dots$

(a) $\frac{1}{25}$

(b) 1

(c) 25

(d) 5

7 Any number multiplied by its reciprocal equals

(a) 1

(b) 0

(c) same number

(d) double number

8 The reciprocal of the number is $4\frac{2}{5}$

(a) $\frac{22}{5}$

(b) $4\frac{5}{2}$

(c) $\frac{5}{22}$

(d) $\frac{2}{11}$

9 $\frac{5}{8} \div \dots = \frac{1}{2}$

(a) $\frac{8}{5}$

(b) $\frac{5}{16}$

(c) $1\frac{1}{4}$

(d) $\frac{4}{5}$



10) $\div \frac{1}{2} = \frac{1}{3}$

(a) $\frac{1}{6}$

(b) 6

(c) $\frac{3}{1}$

(d) $\frac{2}{3}$

11) $4.5 \div 0.09 = \dots \div 9$

(a) 0.45

(b) 450

(c) 45

(d) 4.5

12) How many $\frac{3}{5}$'s are in 9 apples?

(a) $\frac{27}{5}$

(b) 15

(c) $\frac{1}{15}$

(d) $15\frac{2}{3}$

13) If $25 \times 33 = 825$, then $0.25 \times 3.3 = \dots$

(a) 82.5

(b) 8.25

(c) 0.852

(d) 0.825

14) $\div 2.15 = 1,200 \div 215$

(a) 120

(b) 12

(c) 1.2

(d) 1200

15) If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$

(a) 312

(b) 3.12

(c) 31.2

(d) 0.312

16) $\times \frac{3}{5} = \frac{3}{4}$

(a) $\frac{4}{15}$

(b) $1\frac{1}{4}$

(c) $\frac{9}{20}$

(d) $2\frac{2}{9}$

17) The tape diagram representing the division process ($3 \div \frac{1}{2}$) is

(a) 

(b) 

(c) 

(d) 

18) $5.2 \times 0.3 = \dots$

(a) 0.156

(b) 1.56

(c) 15.6

(d) 156



19 $0.55 \div 0.011 = \dots \div 11$

(a) 55

(b) 550

(c) 5,500

(d) 5.5

20 $5 \times \dots = 1$

(a) $\frac{25}{5}$

(b) 1

(c) $\frac{1}{5}$

(d) 0

21 If 6 is a $\frac{1}{4}$ of a number, then the number is

(a) 4

(b) 6

(c) 18

(d) 24

22 If $\frac{1}{8}$ of a number is 40, then the number is

(a) 40

(b) 320

(c) 24

(d) 16

23 To carry out the division operation $6.25 \div 0.025$ we multiply both of the dividend and the divisor by

(a) 10

(b) 100

(c) 1,000

(d) 250

Q2: Answer The Following

1 $\frac{2}{3} \div \frac{4}{9} = \dots$

2 $\frac{5}{7} \div \frac{2}{14} = \dots \times \dots = \dots$

3 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

4 If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots$



5 The number which has no reciprocal is

6 $\frac{6}{7} \div 3 = \dots\dots\dots$

7 Hana divided 127.5 LE among her three sons. Find the share of each one.

8 Shaimaa has 4 liters of juice and wants to divide it into bottles with a capacity of $\frac{2}{3}$ liters. Find the number of bottles needed, using tape diagrams.

9 Answer the following:

a $\frac{1}{2} \div 2 = \dots\dots\dots$

b $3\frac{3}{5} \times \frac{5}{6} = \dots\dots\dots$

c $6 \times \frac{1}{6} = \dots\dots\dots$

d $12 \div \frac{4}{9} = \dots\dots\dots$

10 Youssef bought $\frac{9}{10}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.

11 The reciprocal of 9 is

12 $\dots\dots \div \frac{5}{7} = \frac{7}{8} \times \dots\dots$

13 If $53 \times 31 = 1,643$, then:

a $16.43 \div 31 = \dots\dots\dots$

b $3.1 \times 0.53 = \dots\dots\dots$

c $31 \times 5.3 = \dots\dots\dots$

d $1643 \div 5.3 = \dots\dots\dots$

14 How much is $\frac{1}{4}$ the number 20?

15 $\frac{5}{6} \div \dots\dots = 5$



16 Find the value of y in each of the following.

a $\frac{4}{5} \div y = \frac{1}{4}$

b $\frac{4}{5} \times y = 1$

17 $4 \div \frac{3}{5} = \dots\dots\dots$

--	--	--

18 $\dots\dots\dots \div 0.8 = 2.3$

19 $\frac{6}{9}$ of $\frac{9}{6} = \dots\dots\dots$

20 Find the result of multiplying each of the following using the standard algorithm:

a 2.31×0.23

b 12×3.6

21 $2 \div 0.25 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$



Q1: Choose the correct answer

- 1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is
 - a 3 : 8
 - b 3 : 5
 - c 5 : 8
 - d 5 : 3
- 2 The ratio between the perimeter of a square to its side length is
 - a 1 : 4
 - b 4 : 1
 - c 3 : 1
 - d 1 : 3
- 3 $77 : 49 = \dots : \dots$
 - a 7 : 11
 - b 7 : 1
 - c 11 : 7
 - d 11 : 1
- 4 Which ratio of the following does not equal fourth?
 - a $\frac{4}{16}$
 - b $\frac{5}{20}$
 - c $\frac{7}{28}$
 - d $\frac{10}{45}$
- 5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be
 - a 8
 - b 10
 - c 15
 - d 20
- 6 If 9 to 10 is equivalent to $72 : B$, then $B = \dots$
 - a 8
 - b 80
 - c 7
 - d 70
- 7 The ratio between two side lengths of rhombus is
 - a 1 : 4
 - b 1 : 3
 - c 1 : 2
 - d 1 : 1
- 8 The ratio between the side of an equilateral triangle to its perimeter is :
 - a 1 : 4
 - b 4 : 1
 - c 3 : 1
 - d 1 : 3
- 9 Jana spends 120 LE in 4 days, then the rate of what she spends is LE/day.
 - a 300
 - b 30
 - c 25
 - d 250



10 If $4 : x = 12 : 18$, then $x = \dots\dots\dots$

(a) 6

(b) 9

(c) 15

(d) 18

11 If $8 : x = 0.5$, then $x = \dots\dots\dots$

(a) 4

(b) 8

(c) 16

(d) 40

12 $\frac{7}{\dots\dots} = \frac{28}{48}$

(a) 10

(b) 12

(c) 14

(d) 16

13 Sandy reads 140 pages of stories weekly, then she reads $\dots\dots\dots$ pages daily

(a) 20

(b) 7

(c) 14

(d) 70

14 If $3 : x - 1 = 4 : 8$, then $x = \dots\dots\dots$

(a) 5

(b) 7

(c) 8

(d) 9

15 If $3 : 5 = 12 : 2x$, then $x = \dots\dots\dots$

(a) 20

(b) 24

(c) 12

(d) 10

16 $\dots\dots\dots$ are two equivalent ratios

(a) $\frac{6}{7}, \frac{18}{14}$

(b) $\frac{2}{3}, \frac{8}{16}$

(c) $\frac{4}{5}, \frac{60}{75}$

(d) $\frac{1}{2}, \frac{2}{5}$

17 If $a : b$ and $c : d$ are equivalent ratios then $\dots\dots\dots$

(a) $a \times b = c \times d$

(b) $a \times c = b \times d$

(c) $a \times d = b \times c$

(d) $a + d = b + c$

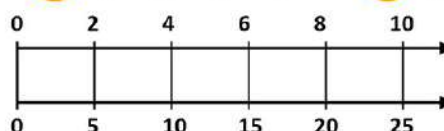
18 The ratio representing the opposite double line number is $\dots\dots\dots$

(a) 2 : 3

(b) 3 : 5

(c) 2 : 5

(d) 2 : 7



19 The ratio representing the opposite tape diagram is $\dots\dots\dots$



(a) 3 : 4

(b) 3 : 7

(c) 4 : 3

(d) 4 : 7



20 The second term in the ratio $\frac{7}{12}$ is

(a) 0

(b) 7

(c) 1

(d) 12

21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = the total.

(a) $\frac{3}{4}$ (b) $\frac{3}{7}$ (c) $\frac{4}{7}$ (d) $\frac{4}{3}$

22 A water tap is leaking 240 litres of water in one hour, then the rate of leaking = L/min.

(a) 240

(b) 4

(c) 40

(d) 6

23 30 L.E for 5 kg, then the cost of 30 kg is L.E

(a) 5

(b) 30

(c) 90

(d) 180

24 To find the simplest form of the ratio 8 : 16, we divide the two terms by

(a) 16

(b) 8

(c) 6

(d) 1

25 Which pair shows equivalent ratios ?

(a) $\frac{3}{4}$, 16 to 20(b) $\frac{25}{50}$, 1 : 2(c) $\frac{4}{8}$, $\frac{3}{9}$

(d) 1 : 3, 3 : 6

26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b =

(a) 16

(b) 4

(c) 15

(d) 80

27 From the opposite equivalent ratios
A + B =

4	36	B
9	A	36

(a) 98

(b) 97

(c) 96

(d) 95

28 The next ratio of 2 : 5 , 6 : 15 , 18 : 45 ,

(a) 54 : 135

(b) 36 : 90

(c) 54 : 90

(d) 54 : 180



29 If $\frac{x+3}{14} = \frac{1}{2}$, then $x = \dots\dots\dots$

(a) 14

(b) 7

(c) 4

(d) 3

30 Carpenter needs 30 m^3 to make 5 tables,
then the rate of used wood = m^3 /table.

(a) 6

(b) 3

(c) 5

(d) 150

31 If $x : 15 = 3 : 5$, then $x + 4 = \dots\dots\dots$

(a) 8

(b) 9

(c) 5

(d) 13

32 If the ratio between two numbers is $3 : 5$ and the smaller
number is 12, then the greater number is

(a) 15

(b) 20

(c) 36

(d) 12

33 If $3 : 5 = 12 : 4x$, then $x = \dots\dots\dots$

(a) 20

(b) 24

(c) 5

(d) 10

34 A worker paints a wall with an area of 36 m^2 in 4 hours,
then the rate of painting is m^2/hr .

(a) 7

(b) 8

(c) 9

(d) 10



Q2: Answer The Following

- 1 Haneen uses 5 spoons of butter for every 3 loaves of bread she bakes. Calculate the number of spoons of butter she needs to make 5 loaves of the same type of bread.

- 2 If Murad has 40 L.E. and Ahmed has 32 L.E. Find the ratio between what Murad has and the total sum of money in simplest form.

3 $\frac{3}{5} = \frac{\dots}{15} = \frac{27}{\dots} = \frac{\dots}{\dots}$

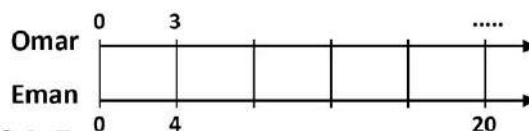
- 4 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

- 5 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is :



- 6 If $\frac{x}{9} = \frac{4}{x}$, then value of $x = \dots\dots\dots$

- 7 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved L.E.



- 8 The ratio between the perimeter of equilateral triangle and its side length is :

- 9 A ship covered 360 km in 4 hours, then the speed of the ship is km/hr.

- 10 The ratio between side length of a square to its perimeter is :



- 11 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

- 12 Marwan has 980 LE. He spends 420 LE. Complete:

- a The money that he spends : the total money = :
 b The money that he saves : the money that he spends = :

- 13 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

- 14 If the ratio of the number of oranges to the number of apples is 3 : 4, How many oranges are there if the number of apples is 16?

- 15 At a juice shop, 3 kilograms of mangoes were squeezed to provide 9 cups of mango juice. If 6 kilograms of mangoes were squeezed, how many cups can be served? How many kilograms of mangoes are needed to provide 18 cups of juice?

- 16 In the ratio 9 : 5, the first term is and the second term is

- 17 If $3 : 7 = x : 28$, then $x - 2 =$

- 18 $\frac{x}{5} = 5$, then $x =$

- 19 Complete the table below to make the ratios equivalent:

$\div \dots$	....	4	....	1	$\times \dots$
	42	....	21	7	



Q1: Choose the correct answer

1 Murad spends 24 pounds in 6 days, then he will spend LE in 10 days.

- (a) 240 (b) 60 (c) 40 (d) 30

2 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is L.E

- (a) 45 (b) 90 (c) 180 (d) 200

3 120 m per min = cm per sec

- (a) 12000 (b) 200 (c) 720 (d) 1200

4 1 day: 24 hours is considered a/an

- (a) unit ratio (b) equivalent ratio (c) conversion factor (d) otherwise

5 180 minutes = hours

- (a) 2 (b) 3 (c) 4 (d) 5

6 360 sec = hour

- (a) 60 (b) 10 (c) 3600 (d) 0.1

7 2.3 pounds = piasters

- (a) 2300 (b) 230 (c) 23 (d) 2.3

8 5,200 dm = km

- (a) 52 (b) 5.2 (c) 0.52 (d) 0.052

9 $4.8 \text{ L} \times \frac{\text{.....}}{\text{.....}} = 4800 \text{ mL}$

- (a) $\frac{100 \text{ mL}}{1 \text{ L}}$
(c) $\frac{1,000 \text{ L}}{1 \text{ mL}}$

- (b) $\frac{1,000 \text{ mL}}{1 \text{ L}}$
(d) $\frac{1 \text{ L}}{1,000 \text{ mL}}$



10 $1 - 1\% = \dots\dots\dots \%$

(a) zero

(b) 2

(c) 99

(d) 1

11 The percentage of 4 squares of 400 squares is $\dots\dots\dots \%$.

(a) 4

(b) 1

(c) 0.01

(d) 0.1

12 $280 \text{ cm / sec} = \dots\dots\dots \text{ m/min}$

(a) 140

(b) 168

(c) 280

(d) 28

13 $1 - 75\% = \dots\dots\dots$

(a) 74%

(b) 0.25

(c) 25

(d) 2.5

14 $225\% = \dots\dots\dots$

(a) $1 \frac{25}{100}$

(b) $2 \frac{25}{200}$

(c) $2 \frac{1}{4}$

(d) 0.225

15 If the percentage of success in a school is 76 %, so the percentage of failures is $\dots\dots \%$

(a) 24

(b) 44

(c) 67

(d) 90

16 Mazen studies 21 pages in 6 hours, then the unit rate of his study is $\dots\dots$ pages/hour.

(a) 5

(b) 4

(c) 3.5

(d) 5.5

17 $\dots\dots\dots \text{ gm} = 60 \text{ kg}$

(a) 0.06

(b) 6,000

(c) 600

(d) 60,000

18 $49\% = \dots\dots\dots$

(a) $\frac{4.9}{100}$

(b) 49

(c) 0.49

(d) 4900

19 40% of a number equals $\dots\dots\dots$

(a) its fourth

(b) its four tenths

(c) its four fourths

(d) its four sevenths



20 35% of 160 =

a $\frac{56}{100}$

b 56

c 5.6

d 560

21 5% of = 5

a 25

b 50

c 100

d 125

22 45 % of a litre = mL

a 450

b 4500

c 45

d 0.45

23 5% of LE = 120 LE

a 240

b 2400

c 1200

d 120

24 $\frac{3}{6} = \dots\dots\dots\%$

a 30

b 25

c 50

d 60

25 If 100% of a number is 80, what is 50% of this number?

a 0.4

b 4

c 40

d 400

26 Which of the following is a unit rate ?

a 40 LE per 2 kg

b 450 km per 3 hours

c 4 spoons of sugar per 2 cups

d 2 liters per bottle

27 The percentage that represents 20 pounds of 400 pounds is

a 5%

b 10%

c 15%

d 20%

28 30% of = 210

a 400

b 500

c 600

d 700

29 Hoda has 20 oranges, 5 of them are rotten, then the percentage of rotten oranges is

a 5%

b 10%

c 15%

d 25%



Q2: Answer The Following

1 24 cm per second = = meter/minute

2 $\frac{23}{25} = \dots\dots\dots \%$

3 A rabbit jumps 3 leaps in 1 meter, then it will jump leaps in 15 meters.

4 A car travels 240 kilometres using 8 liters of gasoline, determine the unit rate with which strategy you prefer?

5 Convert the speed of 500 cm/s to meters per second using the conversion factor?

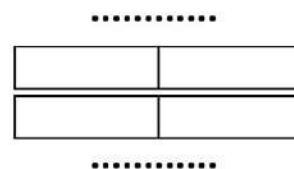
6 A train is traveling at 0.75 kilometers per minute. What is its speed in kilometers per hour?

7 Ahmed drove 240 km in 2 hours.

Draw a tape diagram to represent the rate.

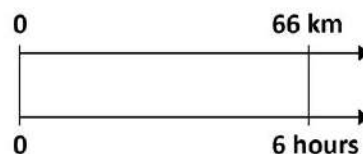
a Find the rate of speed at which Ahmed drives.

b How many kilometers do Ahmed cover when he drive for 7 hours?



8 $2.15 = \dots\dots\dots \%$

9 By using the opposite double number line the unit rate is



- 10 A motorcycle covers 160 km in 4 hours, then the rate of speed is km/hr.
- 11 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce cans of soda.
- 12 If there are 81 litres of water in 18 bottles, then there litres in 6 bottles
- 13 71,500 cm = km
- 14 If 10% of a number is 36, then the number is
- 15 45 m/min = = km/hr
- 16 Belal scored 570 marks out of 600. Then the percentage of marks scored is
- 17 Mohamed distributed 30 cake pieces among his friends, and this number represents 60% of the total number of cake pieces he had with him.
What is the total number of cake pieces Mohamed had?
-
- 18 Determine the best price for buying in each of the following using the unit rate:
- a 4 games for 200 pounds or 8 games for 320 pounds.
- b 3 sandwiches for 90 pounds or 5 sandwiches for 125 pounds.
-
- 19 Adam spent 75% of his workout time running. Express the percentage as a fraction and a decimal fraction?
-
- 20 If the height of Hazem is 1.4 meters, calculate his height in centimeters.
-



Q1: Choose the correct answer

- 1 The division operation represented by the following tape diagram is



☐ a $3 \div \frac{1}{2}$

☒ b $3 \div \frac{1}{3}$

☐ c $3 \div \frac{1}{4}$

☐ d $3 \div \frac{2}{5}$

- 2 The reciprocal of $\frac{1}{8}$ is

☐ a -8

☒ b 8

☐ c $\frac{1}{8}$

☐ d $-\frac{1}{8}$

- 3 The reciprocal of $3\frac{3}{4}$ is

☐ a $\frac{15}{4}$

☐ b $3\frac{4}{3}$

☒ c $\frac{4}{15}$

☐ d $3\frac{4}{15}$

- 4 $\frac{5}{7} \div \dots = 1$

☒ a $\frac{5}{7}$

☐ b 1

☐ c $\frac{1}{5}$

☐ d $\frac{7}{5}$

- 5 $\frac{3}{8} \times \dots = 1$

☐ a $\frac{3}{8}$

☐ b 1

☐ c $\frac{8}{5}$

☒ d $2\frac{2}{3}$

- 6 $\frac{1}{5} \times \frac{1}{5} = \dots$

☒ a $\frac{1}{25}$

☐ b 1

☐ c 25

☐ d 5

- 7 Any number multiplied by its reciprocal equals

☒ a 1

☐ b 0

☐ c same number

☐ d double number

- 8 The reciprocal of the number is $4\frac{2}{5}$

☐ a $\frac{22}{5}$

☐ b $4\frac{5}{2}$

☒ c $\frac{5}{22}$

☐ d $\frac{2}{11}$

- 9 $\frac{5}{8} \div \dots = \frac{1}{2}$

☐ a $\frac{8}{5}$

☐ b $\frac{5}{16}$

☒ c $1\frac{1}{4}$

☐ d $\frac{4}{5}$



10 $\dots \div \frac{1}{2} = \frac{1}{3}$

☒ a $\frac{1}{6}$

☐ b 6

☐ c $\frac{3}{1}$

☐ d $\frac{2}{3}$

11 $4.5 \div 0.09 = \dots \div 9$

☐ a 0.45

☒ b 450

☐ c 45

☐ d 4.5

12 How many $\frac{3}{5}$'s are in 9 apples?

☐ a $\frac{27}{5}$

☒ b 15

☐ c $\frac{1}{15}$

☐ d $15\frac{2}{3}$

13 If $25 \times 33 = 825$, then $0.25 \times 3.3 = \dots$

☐ a 82.5

☐ b 8.25

☐ c 0.852

☒ d 0.825

14 $\dots \div 2.15 = 1,200 \div 215$

☐ a 120

☒ b 12

☐ c 1.2

☐ d 1200

15 If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$

☐ a 312

☒ b 3.12

☐ c 31.2

☐ d 0.312

16 $\dots \times \frac{3}{5} = \frac{3}{4}$

☐ a $\frac{4}{15}$

☒ b $1\frac{1}{4}$

☐ c $\frac{9}{20}$

☐ d $2\frac{2}{9}$

17 The tape diagram representing the division process ($3 \div \frac{1}{2}$) is



18 $5.2 \times 0.3 = \dots$

☐ a 0.156

☒ b 1.56

☐ c 15.6

☐ d 156



19 $0.55 \div 0.011 = \dots \div 11$

a 55

b 550

c 5,500

d 5.5

20 $5 \times \dots = 1$

a $\frac{25}{5}$

b 1

c $\frac{1}{5}$

d 0

21 If 6 is a $\frac{1}{4}$ of a number, then the number is

a 4

b 6

c 18

d 24

22 If $\frac{1}{8}$ of a number is 40, then the number is

a 40

b 320

c 24

d 16

23 To carry out the division operation $6.25 \div 0.025$ we multiply both of the dividend and the divisor by

a 10

b 100

c 1,000

d 250

Q2: Answer The Following

1 $\frac{2}{3} \div \frac{4}{9} = \dots$

2 $\frac{5}{7} \div \frac{2}{14} = \dots \times \dots = \dots$

3 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

159.25 pounds

4 If $10.35 \div 2.3 = 4.5$, then $23 \times 4.5 = \dots$

103.5



5 The number which has no reciprocal is ...**zero**...

6 $\frac{6}{7} \div 3 = \dots \frac{2}{7} \dots$

7 Hana divided 127.5 LE among her three sons. Find the share of each one.

42.5 L.E

8 Shaimaa has 4 liters of juice and wants to divide it into bottles with a capacity of $\frac{2}{3}$ liters. Find the number of bottles needed, using tape diagrams.

6 bottles

9 Answer the following:

a $\frac{1}{2} \div 2 = \dots \frac{1}{4} \dots$

b $3 \frac{3}{5} \times \frac{5}{6} = \dots \mathbf{3} \dots$

c $6 \times \frac{1}{6} = \dots \mathbf{1} \dots$

d $12 \div \frac{4}{9} = \dots \mathbf{27} \dots$

10 Youssef bought $\frac{9}{10}$ kg of clay and wants to divide it into pieces, where the mass of each piece is $\frac{3}{5}$ kg.

$1 \frac{1}{2}$

11 The reciprocal of 9 is $\dots \frac{1}{9} \dots$

12 $\dots \frac{7}{8} \dots \div \frac{5}{7} = \frac{7}{8} \times \dots \frac{7}{5} \dots$

13 If $53 \times 31 = 1,643$, then:

a $16.43 \div 31 = \dots \mathbf{0.53} \dots$

b $3.1 \times 0.53 = \dots \mathbf{1.643} \dots$

c $31 \times 5.3 = \dots \mathbf{164.3} \dots$

d $1643 \div 5.3 = \dots \mathbf{310} \dots$

14 How much is $\frac{1}{4}$ the number 20?

5

15 $\frac{5}{6} \div \dots \frac{1}{6} \dots = 5$



16 Find the value of y in each of the following.

a $\frac{4}{5} \div y = \frac{1}{4}$ **$\frac{16}{5}$**

b $\frac{4}{5} \times y = 1$ **$\frac{5}{4}$**

17 $4 \div \frac{3}{5} = \dots\dots\dots$ **$6\frac{2}{3}$**

18 $\dots\dots\dots \div 0.8 = 2.3$ **1.84**

19 $\frac{6}{9}$ of $\frac{9}{6} = \dots\dots\dots$ **1**

20 Find the result of multiplying each of the following using the standard algorithm:

a 2.31×0.23 **0.5313**

b 12×3.6 **432**

21 $2 \div 0.25 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$ **200 25 8**



Q1: Choose the correct answer

1 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is

a 3 : 8

b 3 : 5

c 5 : 8

d 5 : 3

2 The ratio between the perimeter of a square to its side length is

a 1 : 4

b 4 : 1

c 3 : 1

d 1 : 3

3 $77 : 49 = \dots : \dots$

a 7 : 11

b 7 : 1

c 11 : 7

d 11 : 1

4 Which ratio of the following does not equal fourth?

a $\frac{4}{16}$ b $\frac{5}{20}$ c $\frac{7}{28}$ d $\frac{10}{45}$

5 The ratio between two number is 2:5. If the first number becomes 8, then the second number will be

a 8

b 10

c 15

d 20

6 If 9 to 10 is equivalent to $72 : B$, then $B = \dots$

a 8

b 80

c 7

d 70

7 The ratio between two side lengths of rhombus is

a 1 : 4

b 1 : 3

c 1 : 2

d 1 : 1

8 The ratio between the side of an equilateral triangle to its perimeter is :

a 1 : 4

b 4 : 1

c 3 : 1

d 1 : 3

9 Jana spends 120 LE in 4 days, then the rate of what she spends is LE/day.

a 300

b 30

c 25

d 250



10 If $4 : x = 12 : 18$, then $x =$

☒ a 6

☐ b 9

☐ c 15

☐ d 18

11 If $8 : x = 0.5$, then $x =$

☐ a 4

☐ b 8

☒ c 16

☐ d 40

12 $\frac{7}{\dots} = \frac{28}{48}$

☐ a 10

☒ b 12

☐ c 14

☐ d 16

13 Sandy reads 140 pages of stories weekly, then she reads pages daily

☒ a 20

☐ b 7

☐ c 14

☐ d 70

14 If $3 : x - 1 = 4 : 8$, then $x =$

☐ a 5

☒ b 7

☐ c 8

☐ d 9

15 If $3 : 5 = 12 : 2x$, then $x =$

☐ a 20

☐ b 24

☐ c 12

☒ d 10

16 are two equivalent ratios

☐ a $\frac{6}{7}, \frac{18}{14}$

☐ b $\frac{2}{3}, \frac{8}{16}$

☒ c $\frac{4}{5}, \frac{60}{75}$

☐ d $\frac{1}{2}, \frac{2}{5}$

17 If $a : b$ and $c : d$ are equivalent ratios then

☐ a $a \times b = c \times d$

☐ b $a \times c = b \times d$

☒ c $a \times d = b \times c$

☐ d $a + d = b + c$

18 The ratio representing the opposite double line number is

☐ a 2 : 3

☐ b 3 : 5

☒ c 2 : 5

☐ d 2 : 7

19 The ratio representing the opposite tape diagram is

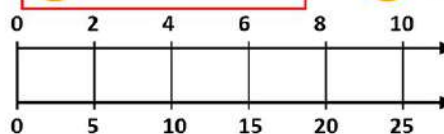


☐ a 3 : 4

☐ b 3 : 7

☒ c 4 : 3

☐ d 4 : 7



20 The second term in the ratio $\frac{7}{12}$ is

a 0

b 7

c 1

d 12

21 An amount of food is distributed between two people in the ratio 3 : 4 then what the first person took = the total.

a $\frac{3}{4}$ b $\frac{3}{7}$ c $\frac{4}{7}$ d $\frac{4}{3}$

22 A water tap is leaking 240 litres of water in one hour, then the rate of leaking = L/min.

a 240

b 4

c 40

d 6

23 30 L.E for 5 kg, then the cost of 30 kg is L.E

a 5

b 30

c 90

d 180

24 To find the simplest form of the ratio 8 : 16, we divide the two terms by

a 16

b 8

c 6

d 1

25 Which pair shows equivalent ratios ?

a $\frac{3}{4}$, 16 to 20b $\frac{25}{50}$, 1 : 2c $\frac{4}{8}$, $\frac{3}{9}$

d 1 : 3, 3 : 6

26 If the ratio between a and b is 1 : 3 and the sum of a and b is 20 ,then b =

a 16

b 4

c 15

d 80

27 From the opposite equivalent ratios
A + B =

4	36	B
9	A	36

a 98

b 97

c 96

d 95

28 The next ratio of 2 : 5 , 6 : 15 , 18 : 45 ,

a 54 : 135

b 36 : 90

c 54 : 90

d 54 : 180



29 If $\frac{x+3}{14} = \frac{1}{2}$, then $x = \dots\dots\dots$

☐ a 14

☐ b 7

☒ c 4

☐ d 3

30 Carpenter needs 30 m^3 to make 5 tables,
then the rate of used wood = m^3 /table.

☒ a 6

☐ b 3

☐ c 5

☐ d 150

31 If $x : 15 = 3 : 5$, then $x + 4 = \dots\dots\dots$

☐ a 8

☐ b 9

☐ c 5

☒ d 13

32 If the ratio between two numbers is $3 : 5$ and the smaller
number is 12, then the greater number is

☐ a 15

☒ b 20

☐ c 36

☐ d 12

33 If $3 : 5 = 12 : 4x$, then $x = \dots\dots\dots$

☐ a 20

☐ b 24

☒ c 5

☐ d 10

34 A worker paints a wall with an area of 36 m^2 in 4 hours,
then the rate of painting is m^2/hr .

☐ a 7

☐ b 8

☒ c 9

☐ d 10



Q2: Answer The Following

- 1 Haneen uses 5 spoons of butter for every 3 loaves of bread she bakes. Calculate the number of spoons of butter she needs to make 5 loaves of the same type of bread.

15 spoons.

- 2 If Murad has 40 L.E. and Ahmed has 32 L.E. Find The ratio between what Murad has and the total sum of money in simplest form.

5 : 9

3 $\frac{3}{5} = \frac{9}{15} = \frac{27}{45} = \frac{30}{50}$

- 4 In a classroom, if the ratio of the number of boys to the number of girls is 3 to 2, and the total number of pupils in the class is 45, How many girls are in the class?

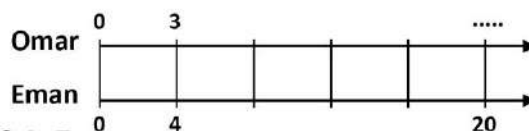
18 girls.

- 5 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is3..... :2.....



- 6 If $\frac{x}{9} = \frac{4}{x}$, then value of x =6.....

- 7 From the opposite double number line, if the ratio between what Omar saved to what Eman saved was 3 : 4 if Eman saved 20 L.E. then Omar saved15..... L.E



- 8 The ratio between the perimeter of equilateral triangle and its side length is3..... :1.....

- 9 A ship covered 360 km in 4 hours, then the speed of the ship is90..... km/hr.

- 10 The ratio between side length of a square to its perimeter is1..... :4.....



- 11 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?

120 calories.

- 12 Marwan has 980 LE. He spends 420 LE. Complete:

- a The money that he spends : the total money = :
 b The money that he saves : the money that he spends = :

- 13 The number of students in a school is 540, if the number of boys in school is 300, Find: The ratio between the number of boys and the number of girls.

5 : 4

- 14 If the ratio of the number of oranges to the number of apples is 3 : 4, How many oranges are there if the number of apples is 16?

12 oranges.

- 15 At a juice shop, 3 kilograms of mangoes were squeezed to provide 9 cups of mango juice. If 6 kilograms of mangoes were squeezed, how many cups can be served? How many kilograms of mangoes are needed to provide 18 cups of juice?

18 cups.

6 kilograms.

- 16 In the ratio 9 : 5, the first term is⁹..... and the second term is⁵.....

- 17 If $3 : 7 = x : 28$, then $x - 2 = \dots\dots\dots^{10}$

- 18 $\frac{x}{5} = 5$, then $x = \dots\dots\dots^{25}$

- 19 Complete the table below to make the ratios equivalent:

$\div \dots$	$\frac{6}{42}$	$\frac{4}{28}$	$\frac{3}{21}$	$\frac{1}{7}$	$\times \dots$
--------------	----------------	----------------	----------------	---------------	----------------



Q1: Choose the correct answer

1 Murad spends 24 pounds in 6 days, then he will spend LE in 10 days.

a 240

b 60

c 40

d 30

2 45 L.E for 5kg of tomatos, then the cost of 20 kg of tomatos is L.E

a 45

b 90

c 180

d 200

3 120 m per min = cm per sec

a 12000

b 200

c 720

d 1200

4 1 day: 24 hours is considered a/an

a unit ratio

b equivalent ratio

c conversion factor

d otherwise

5 180 minutes = hours

a 2

b 3

c 4

d 5

6 360 sec = hour

a 60

b 10

c 3600

d 0.1

7 2.3 pounds = piasters

a 2300

b 230

c 23

d 2.3

8 5,200 dm = km

a 52

b 5.2

c 0.52

d 0.052

9 $4.8 \text{ L} \times \frac{\text{.....}}{\text{.....}} = 4800 \text{ mL}$

a $\frac{100 \text{ mL}}{1 \text{ L}}$ c $\frac{1,000 \text{ L}}{1 \text{ mL}}$ b $\frac{1,000 \text{ mL}}{1 \text{ L}}$ d $\frac{1 \text{ L}}{1,000 \text{ mL}}$ 

10 $1 - 1\% = \dots\dots\dots \%$

a zero

b 2

c 99

d 1

11 The percentage of 4 squares of 400 squares is $\dots\dots\dots \%$.

a 4

b 1

c 0.01

d 0.1

12 $280 \text{ cm / sec} = \dots\dots\dots \text{ m/min}$

a 140

b 168

c 280

d 28

13 $1 - 75\% = \dots\dots\dots$

a 74%

b 0.25

c 25

d 2.5

14 $225\% = \dots\dots\dots$

a $1 \frac{25}{100}$

b $2 \frac{25}{200}$

c $2 \frac{1}{4}$

d 0.225

15 If the percentage of success in a school is 76 %, so the percentage of failures is $\dots\dots \%$

a 24

b 44

c 67

d 90

16 Mazen studies 21 pages in 6 hours, then the unit rate of his study is $\dots\dots$ pages/hour.

a 5

b 4

c 3.5

d 5.5

17 $\dots\dots\dots \text{ gm} = 60 \text{ kg}$

a 0.06

b 6,000

c 600

d 60,000

18 $49\% = \dots\dots\dots$

a $\frac{4.9}{100}$

b 49

c 0.49

d 4900

19 40% of a number equals $\dots\dots\dots$

a its fourth

b its four tenths

c its four fourths

d its four sevenths



20 35% of 160 =

☐ a $\frac{56}{100}$

☒ b 56

☐ c 5.6

☐ d 560

21 5% of = 5

☐ a 25

☐ b 50

☒ c 100

☐ d 125

22 45 % of a litre = mL

☒ a 450

☐ b 4500

☐ c 45

☐ d 0.45

23 5% of LE = 120 LE

☐ a 240

☒ b 2400

☐ c 1200

☐ d 120

24 $\frac{3}{6} = \dots\dots\dots\%$

☐ a 30

☐ b 25

☒ c 50

☐ d 60

25 If 100% of a number is 80, what is 50% of this number?

☐ a 0.4

☐ b 4

☐ c 40

☐ d 400

26 Which of the following is a unit rate ?

☐ a 40 LE per 2 kg

☒ b 450 km per 3 hours

☐ c 4 spoons of sugar per 2 cups

☒ d 2 liters per bottle

27 The percentage that represents 20 pounds of 400 pounds is

☒ a 5%

☐ b 10%

☐ c 15%

☐ d 20%

28 30% of = 210

☐ a 400

☐ b 500

☐ c 600

☒ d 700

29 Hoda has 20 oranges, 5 of them are rotten, then the percentage of rotten oranges is

☐ a 5%

☐ b 10%

☐ c 15%

☒ d 25%



Q2: Answer The Following

1 24 cm per second = **14.4 meter/minute.** = meter/minute

2 $\frac{23}{25} = \dots\dots\dots$ **92** %

3 A rabbit jumps 3 leaps in 1 meter, then it will jump **45** leaps in 15 meters.

4 A car travels 240 kilometres using 8 liters of gasoline, determine the unit rate with which strategy you prefer?

30 km per liter.

5 Convert the speed of 500 cm/s to meters per second using the conversion factor?

5 m/s

6 A train is traveling at 0.75 kilometers per minute. What is its speed in kilometers per hour?

45 km/hr.

7 Ahmed drove 240 km in 2 hours.

Draw a tape diagram to represent the rate.

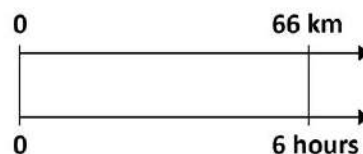
a Find the rate of speed at which Ahmed drives.

b How many kilometers do Ahmed cover when he drive for 7 hours? **840 km.**

120 km/hr.

8 $2.15 = \dots\dots\dots$ **215** %

9 By using the opposite double number line the unit rate is **11 km/hr**



- 10 A motorcycle covers 160 km in 4 hours, then the rate of speed is km/hr. **40**
- 11 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce cans of soda. **4500**
- 12 If there are 81 litres of water in 18 bottles, then there litres in 6 bottles. **27**
- 13 71,500 cm = km **0.715**
- 14 If 10% of a number is 36, then the number is **360**
- 15 45 m/min = = km/hr **2.7**
- 16 Belal scored 570 marks out of 600. Then the percentage of marks scored is **95**
- 17 Mohamed distributed 30 cake pieces among his friends, and this number represents 60% of the total number of cake pieces he had with him. What is the total number of cake pieces Mohamed had?
50
- 18 Determine the best price for buying in each of the following using the unit rate:
 a 4 games for 200 pounds or 8 games for 320 pounds. **8 games for 320 pounds is the better price.**
 b 3 sandwiches for 90 pounds or 5 sandwiches for 125 pounds. **5 sandwiches for 125 pounds is the better price.**
- 19 Adam spent 75% of his workout time running. Express the percentage as a fraction and a decimal fraction?
0.75
- 20 If the height of Hazem is 1.4 meters, calculate his height in centimeters. **140**



حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

اختبار شهر مارس





Question 1

Choose the correct answer

1 $\frac{3}{8} \div \frac{3}{4} = \text{-----}$

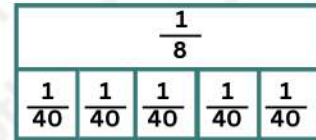
(a) $1 \frac{1}{8}$

(b) 2

(c) $\frac{9}{39}$

(d) $\frac{1}{2}$

2 The following model represents = -----



(a) $\frac{1}{8} \div 5$

(b) $\frac{1}{40} \div \frac{1}{8}$

(c) $\frac{1}{40} \div 5$

(d) $\frac{1}{8} \div 40$

3 From the following model, $3 \div \frac{2}{4} = \text{----}$



(a) 6

(b) 12

(c) $\frac{4}{12}$

(d) $\frac{3}{4}$

4 $5 \div \frac{3}{6} = \text{-----}$

(a) 10

(b) 15

(c) $\frac{15}{6}$

(d) $\frac{1}{2}$

5 Half of 22 = -----

(a) 22

(b) 11

(c) 2

(d) 44

6 The reciprocal of the fraction $\frac{5}{10}$ in simplest form is -----

(a) 2

(b) 5

(c) $\frac{1}{5}$

(d) $\frac{1}{10}$

7 $\frac{4}{5} \div \frac{5}{4} = \text{-----}$

(a) 1

(b) $\frac{16}{25}$

(c) $\frac{1}{4}$

(d) $\frac{1}{5}$

8 ----- $\times 1 \frac{1}{2} = 1$

(a) 1

(b) $\frac{3}{2}$

(c) $\frac{2}{3}$

(d) $2 \frac{1}{2}$





9 $1\frac{2}{3} \div k = \frac{5}{6}$, then $k =$ -----

(a) 2

(b) $\frac{25}{18}$

(c) $\frac{18}{25}$

(d) $\frac{1}{2}$

10 If $2.2 \times 2.07 = 4.554$, then $22 \times 20.7 =$ -----

(a) 4554

(b) 455.4

(c) 45.54

(d) 4.554

11 $3.2 \div 0.04 =$ -----

(a) 8

(b) 0.8

(c) 80

(d) 800

12 6.35×0.18 63.5×0.018

(a) >

(b) <

(c) =

(d) other

13 $54.9 \times$ ----- $= 5.49$

(a) 10

(b) 1

(c) 0.1

(d) 0.01

14 If $48.36 \div 7.8 = 6.2$, then $4.836 \div 0.78 =$ -----

(a) 0.62

(b) 6.2

(c) 62

(d) 620

15 ----- $\times \frac{2}{7} = 1$

(a) zero

(b) 1

(c) $\frac{2}{7}$

(d) $\frac{7}{2}$

16 $5 \div \frac{1}{3} =$ -----

(a) 15

(b) $5\frac{1}{3}$

(c) $\frac{3}{5}$

(d) $\frac{5}{3}$

17 $\frac{2}{3} \div \frac{1}{2} =$ -----

(a) $\frac{4}{15}$

(b) $1\frac{1}{3}$

(c) $\frac{15}{4}$

(d) $\frac{1}{15}$





18 $\frac{3}{4} \div 2 = \text{-----}$

(a) $\frac{3}{8}$

(b) $\frac{6}{4}$

(c) $\frac{4}{6}$

(d) $\frac{3}{2}$

19 $2.1 \times 0.3 = \text{-----}$

(a) 6.3

(b) 0.63

(c) 63

(d) 0,063

20 If $15.25 \div 0.25 = 61$, then $1.525 \div 0.025 = \text{-----}$

(a) 61

(b) 610

(c) 6.1

(d) 0.61

21 By using the opposite model

what is the quotient of $3 \div \frac{2}{3}$

1			1			1		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

(a) 2

(b) $4\frac{1}{2}$

(c) $\frac{3}{2}$

(d) $\frac{2}{3}$

22 $\text{-----} \div \frac{1}{4} = 1$

(a) 0.4

(b) 1

(c) 4

(d) $\frac{1}{4}$

23 you can use the opposite model to solve the problem

(a) $\frac{1}{10} \div \frac{1}{2}$

(b) $\frac{1}{10} \div 5$

(c) $\frac{1}{2} \div 5$

(d) $\frac{1}{2} \div 10$

$\frac{1}{2}$									
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$





Question 2

Answer the following

- 1 A runner covered $\frac{2}{3}$ kilometers in 4 laps.
How many kilometers did he make in one Lap?
.....
.....
- 2 Sameh has 6 liters of milk. He needs to divide it into small bottles of $\frac{3}{4}$ liters each. How many bottles will he need ?
.....
.....
- 3 Sherif wants to cut a wire $\frac{3}{5}$ m long into equal pieces, each piece $\frac{1}{25}$ m long, how many pieces can be formed?
.....
.....
- 4 Nora bought 8 books for 361.6 L.E.
What is the price of each book ?
.....
.....
- 5 The price of one meter of cloth is 12.5 L.E.
Find the price of 2.5 meters.
.....
.....
- 6 If the price of one meter of cloth is 9.8 L.E.
What is the cost of 1.5 meters of cloth ?
.....
.....





- 7** Baher covered $\frac{2}{3}$ km in 5 minute.

What is the distance covered in one minute ?

.....

.....

- 8** By using the modeling division find the quotient.

a $\frac{3}{4} \div \frac{2}{5}$

b $\frac{2}{3} \div 4$

.....

.....

.....

- 9** A car covered a distance of 221.65 km in 2.75 hours. Calculate the distance it covered in one hour.

.....

.....

.....

- 10** You have $\frac{3}{4}$ meters of pipe, how many pieces can you cut the pipe into if each piece is $\frac{1}{8}$ meters ?

.....

.....

.....

- 11** Sherif wants to cut a wire $\frac{3}{5}$ m long into equal pieces, each piece $\frac{1}{25}$ m long, how many pieces can be formed?

.....

.....

.....





Question 1

Choose the correct answer

- 1 The ratio 6 : 18 in the simplest form is 1 : -----
 (a) 2 (b) 3 (c) 6 (d) 18
- 2 If Oumnia has 200 pounds and Amira has 50 pounds, then the ratio between what Oumnia has and Amira has is ----
 (a) 0.4 (b) $\frac{1}{5}$ (c) $\frac{1}{4}$ (d) $\frac{4}{1}$
- 3 Which ratio means the same thing as 1 : 4 ?
 (a) 4 through 1 (b) 1 to 1 (c) 1 to 4 (d) $\frac{4}{1}$
- 4 $20 : 36 = \text{-----} : \text{-----}$ [in the simplest form]
 (a) 18 : 10 (b) 10 : 18 (c) 5 : 9 (d) 9 : 5
- 5 The ratio between two side lengths of square is -----
 (a) 1 : 4 (b) 2 : 4 (c) 1 : 2 (d) 1 : 1
- 6 If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 16, then the number of red is -----
 (a) 18 (b) 32 (c) 44 (d) 12
- 7 The next ratio of 3 : 5 , 6 : 10 , 9 : 15 is -----
 (a) 4 : 16 (b) 12 : 20 (c) 10 : 18 (d) 8 : 16
- 8 If the ratio between two numbers is 2 : 5 and the smaller number is 10, then the greater number is -----
 (a) 25 (b) 2.5 (c) 7 (d) 12
- 9 If the ratio between two numbers is 3 : 5 and the first number is 6 , then the second number is -----
 (a) 10 (b) 6 (c) 9 (d) 15





10 If the ratio between boys and girls is 5 : 6 and the total number of boys and girls is 44 pupils, then the number of girls is ----

- (a) 20 (b) 24 (c) 4 (d) 6

11 If Mona bought 4 kg of fig for 80 L.E., then she paid ----- L.E. to buy 8 kg.

- (a) 88 (b) 160 (c) 320 (d) 640

12 If the ratio 5 : 7 is the same ratio 10 : x , then x = -----

- (a) 9 (b) 10 (c) 14 (d) 21

13 If $4 : 7 = x : 35$, then $x - 3 =$ -----

- (a) 20 (b) 23 (c) 17 (d) 15

14 The value of a that makes the ratios $\frac{a}{12}$, $\frac{1}{4}$ are equivalent is

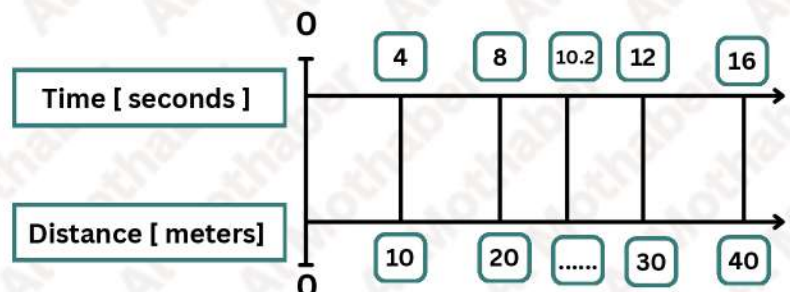
- (a) 5 (b) 3 (c) 2 (d) 4

15 If $\frac{x}{5} = \frac{12}{15}$ then $x + 1 =$ -----

- (a) 2 (b) 3 (c) 4 (d) 5

16 The missing number in the opposite double number line is

- (a) 20 (b) 25
(c) 30 (d) 25.5



17 If $\frac{x+2}{5} = \frac{28}{35}$, then X = -----

- (a) 4 (b) 2 (c) 6 (d) 8





18 Which of the following are equivalent ?

- (a) $\frac{18}{20}, \frac{27}{30}, \frac{1}{3}$ (b) $\frac{18}{20}, \frac{9}{10}, \frac{27}{30}$ (c) $\frac{9}{10}, \frac{16}{20}, \frac{36}{40}$ (d) $\frac{2}{9}, \frac{4}{18}, \frac{8}{27}$

19 $\frac{3}{5}$ is NOT equivalent to -----

- (a) $\frac{6}{10}$ (b) $\frac{9}{15}$ (c) $\frac{12}{25}$ (d) $\frac{18}{30}$

20 If $\frac{3}{0.5} = \frac{x}{1}$, then X = -----

- (a) 2 (b) 3 (c) 6 (d) 9

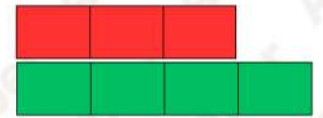
21 $25 : 50 =$ -----

- (a) 10 : 5 (b) 1 : 2 (c) 2 : 1 (d) 5 : 1

22 Which of the following is equivalent to $\frac{8}{12}$

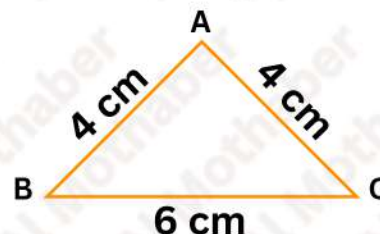
- (a) $\frac{10}{15}$ (b) $\frac{3}{4}$ (c) $\frac{3}{2}$ (d) $\frac{1}{2}$

23 In the opposite figure, the ratio between number of red squares and number of green squares = ----



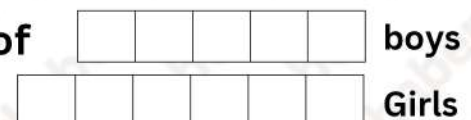
- (a) 5 : 2 (b) 3 : 4 (c) 7 : 2 (d) 2 : 3

24 In the opposite figure : The ratio between length of $\overline{AB}$ and perimeter of $\triangle ABC$ is -----



- (a) 1 : 10 (b) 2 : 3 (c) 6 : 8 (d) 2 : 7

25 In the opposite tape diagrams. If the number of boys is 20, then the number of girls =-----



- (a) 16 (b) 20 (c) 24 (d) 30





Question 2

Answer the following

- 1 The total number of boys and girls in a school is 480 ,
if the number of boys in this school is 320 , find :
 - a The ratio between the number of boys and the number of girls.
.....
 - b The ratio between the number of boys and the total number of pupils.
.....
 - c The ratio between the number of girls and the total number of pupils.
.....
- 2 What operation can be used to find equal ratios?
What operations can not be used to find equal ratios?
.....
.....
- 3 Write three ratios that are equivalent to each ratio.
 - a $\frac{3}{2}$
.....
 - b 3 to 4
.....
- 4 Find each ratio in simplest form.
 - a 49 : 56
 - b 24 : 30
- 5 Is the ratio 30 to 5 the same as the ratio 5 to 30? Explain.
.....
.....
.....





- 6 Complete the table for a ratio of 7 green to 4 yellow bulbs.

Total	Green	Yellow
11	7	4
A	14	B
C	D	20
33	E	F

- 7 Complete the following

- a The next directly ratio of the pattern: $\frac{2}{3}$, $\frac{4}{6}$, $\frac{6}{9}$ is -----
- b The ration of a : b 4 : 5, and $a + b = 36$, then a = -----

- 8 Ahmed bought 3 kg of banana he paid 45 L.E.
How much money does he pay to buy 6 kg ?

.....

.....

- 9 A runner covers 24 kilometers in 6 hours.
Find the distance he covers in 4 hours at the same speed.

.....

.....

.....

.....

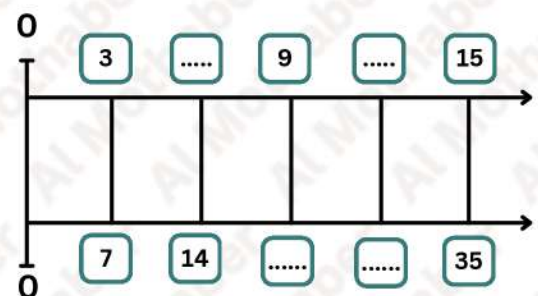
- 10 a Complete the following double number line using the given ratio.

3 : 7

- b Write three equivalent ratios .

.....

.....





- 11** In a juice shop 3 kilograms of strawberry were squeezed to provide 9 cups of juice to customers. If 6 kilograms were squeezed, how many cups can be served to customers ?
-
-

- 12** If Wael has 40 L.E. and Ahmed has 32 L.E. Find:

a The ratio between what Wael has and what Ahmed has in simplest form.

.....

b The ratio between what Ahmed has and what Wael has in simplest form

.....

- 13** If the price of 4 kilograms of cheese is 800 L.E. Find the price of 3 kilograms of the same cheese.
-
-
-

- 14** If the ratio between what Ali saved to what Mona saved was 2 : 1 and the total money that they saved is 12, find what each one saved.
-
-
-





Question 1

Choose the correct answer

1 Which of the following is the best buy?

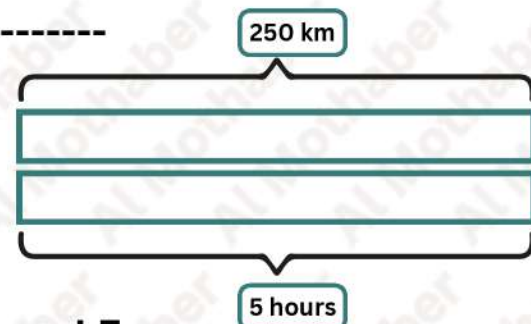
- (a) 20 L.E. for 4 kg (b) 12 L.E. for 6 kg.
 (c) 3 L.E. for kg. (d) $\frac{1}{4}$ kg for L.E.

2 Which of the following is a unit rate?

- (a) 40 L.E. per 5 kg (b) 5 liters per one bottle
 (c) 75 km per 3 hours (d) 8 spoons of sugar for 4 cups of tea

3 The unit rate of the opposite tape diagram is -----

- (a) 250 km per 5 hours (b) 50 km per hour
 (c) 100 km per 2 hours (c) 55 km per hour



4 30 LE for 5 kg , then the cost of 30 kg is ----- LE

- (a) 5 (b) 30 (c) 180 (d) 90

5 360 sec = ----- hr

- (a) 60 (b) 10 (c) 3,600 (d) 0.1

6 $\frac{1 \text{ km}}{\text{.....}}$ is a conversion factor.

- (a) 1 hr (b) 1,000 m (c) 100 m (d) 10,000 mm

7 Which of the following is NOT a conversion factor ?

- (a) $\frac{1 \text{ km}}{1,000 \text{ m}}$ (b) $\frac{60 \text{ min}}{1 \text{ hour}}$ (c) $\frac{90 \text{ km}}{1 \text{ hour}}$ (d) $\frac{1 \text{ days}}{24 \text{ hours}}$

8 A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers ----- km per liter .

- (a) 5 (b) 1 (c) 10 (d) 20





- 9 3 meters per hour = ----- cm per min.
 (a) 5 (b) 10 (c) 15 (d) 300
- 10 Mazen travels a distance of 30 meters in 10 seconds, the distance he travels per second = ----- meters
 (a) 2 (b) 3 (c) 10 (d) 30
- 11 If the percent of boys in a school is 52 % , then the percent of girls is ----- %
 (a) 50 (b) 52 (c) 100 (d) 48
- 12 $0.17 = \text{-----}$
 (a) 1.7 % (b) 17 % (c) 170 % (d) 7 %
- 13 If 50 % of the number Z equals 200 , then Z = -----
 (a) 100 (b) 250 (c) 300 (d) 400
- 14 $1 - [15 \% + 55 \%] = \text{-----}$
 (a) 30 (b) 0.3 (c) 69% (d) 70%
- 15 $30 \% + 40 \% = \text{-----}$
 (a) 70 (b) 7 (c) 0.7 (d) 0.07
- 16 Which of the following is NOT a conversion factor ?
 (a) $1 \text{ hr} = 3600 \text{ sec}$ (b) $12 \text{ month} : 1 \text{ year}$ (c) $1000 \text{ mm} = 1 \text{ L}$ (d) $\frac{1 \text{ min}}{60 \text{ sec}}$
- 17 $180 \text{ min} \times \text{-----} = 3 \text{ hr}$
 (a) $\frac{1 \text{ hr}}{60 \text{ min}}$ (b) $\frac{1 \text{ min}}{60 \text{ hr}}$ (c) $\frac{1 \text{ hr}}{180 \text{ min}}$ (d) $\frac{60 \text{ min}}{1 \text{ hr}}$





18 65 % of 44 44 % of 65

(a) <

(b) =

(c) >

(d) other

19 30 % of 450 kg = ----- kg

(a) 35

(b) 90

(c) 135

(d) 180

20 45% of a kilometer = ----- m

(a) 450

(b) 4500

(c) 45

(d) 0.45

Question 2

Answer the following

1 Write each of the following as a percent .

(a) 0.79

(b) 35 : 50

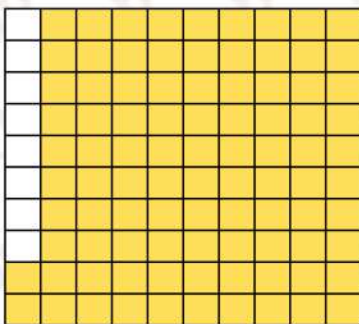
.....

.....

.....

.....

2 Express each shaded area as a percent, as a fraction and as a decimal in simplest form .



• percent : -----

• fraction : -----

• decimal : -----

3 Find the value of X in the of the following :

$$\frac{X + 6}{20} = 50 \%$$

.....

.....





4 Use the opposite tape diagram to find the unit rate , then complete .

- 36 LE for 4 notebooks ,
then ----- LE for each notebook .



5 How much would you pay for 3 kilograms of cheese ?

.....



6 A printer prints 390 papers in 3 hours.
Calculate the unit rate for printer.

.....

7 The speed of a car is 1,000 meters per minute.
Convert the speed to km per hour.

.....

8 On most summer days, camels drink about 20,000 milliliters of water.
How many liters of water is that ? Show your calculations.

.....

9 Aly bought a car for 480,000 LE. He paid 50% of its price.
How much money did he pay?

.....



حمل الآن

مجانا وحصريا

المراجعة رقم (6)

اختبار شهر مارس



Unit 8

Q1 Choose the correct answer :-

- 1) $\frac{4}{7} \div \dots = 1\frac{1}{2}$
 a) $\frac{8}{21}$ b) $\frac{21}{8}$ c) $\frac{6}{7}$ d) $\frac{7}{6}$
- 2) $\dots \div \frac{3}{8} = \frac{5}{6}$
 a) $\frac{18}{40}$ b) $\frac{15}{16}$ c) $\frac{1}{2}$ d) $\frac{5}{16}$
- 3) $\dots \times \frac{2}{5} = \frac{4}{14}$
 a) $\frac{2}{3}$ b) $\frac{5}{7}$ c) $\frac{3}{2}$ d) 3
- 4) $\dots \times 1\frac{1}{2} = 1$
 a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{3}{2}$ d) 3
- 5) $\frac{3}{5} \times \dots = 1$
 a) $\frac{8}{5}$ b) $\frac{3}{5}$ c) $1\frac{2}{3}$ d) 1
- 6) Half of 22 =
 a) 11 b) 22 c) 44 d) 2
- 7) How many $\frac{1}{6}$ s are there in $\frac{1}{2}$ apple ?
 a) 1 b) 12 c) 3 d) $\frac{1}{3}$
- 8) How many $\frac{3}{4}$ s are there in 6 apple ?
 a) 8 b) $\frac{18}{4}$ c) 7 d) $4\frac{1}{2}$
- 9) $87.29 \div 0.29 = 872.9 \div \dots$
 a) 2.9 b) 29 c) 290 d) 0.29
- 10) $327 \div 24 = 3.27 \div \dots$
 a) 2.4 b) 0.24 c) 24 d) 2004
- 11) If $123 \times 45 = 5535$, then $1.23 \times 4.5 = \dots$
 a) 55.35 b) 553.5 c) 5.535 d) 5535
- 12) If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$
 a) 0.312 b) 3.12 c) 31.2 d) 312

13) $48 \times 36 = 1728$ then $17.28 \div 3.6 = \dots\dots\dots$

- a) 48 b) 480 c) 0.48 d) 4.8

14) $0.33 \div 0.011 = \dots\dots\dots \div 11$

- a) 33 b) 0.33 c) 330 d) 3300

15) Yara uses $\frac{6}{8}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake ?

- a) $\frac{12}{8}$ b) $\frac{3}{8}$ c) $\frac{2}{8}$ d) $\frac{1}{8}$

16) $\frac{2}{3} \div \frac{1}{3} \dots\dots\dots \frac{1}{2}$

- a) < b) > c) =

17) Any number multiplied by its reciprocal equals

- a) same number b) 0 c) 1 d) double number

Q2 Complete the following :-

1) The reciprocal of $3\frac{3}{4}$ is

2) $\frac{4}{3} \div \frac{2}{9} = \dots\dots\dots$ (simplest form)

3) $5 \div \frac{1}{2} = \dots\dots\dots$ (simplest form)

4) $\frac{3}{4} \div 3 = \dots\dots\dots$ (simplest form)

5) $\frac{3}{5} \div \frac{3}{5} = \dots\dots\dots$ (simplest form)

6) $\frac{2}{7} \div \frac{2}{4} = \dots\dots\dots$ (simplest form)

7) $\dots\dots\dots \times 4 = 1$

8) $0.65 \times 0.2 = \dots\dots\dots$

9) $0.676 \times 0.1 = \dots\dots\dots$

10) $2.4 \times 3.6 = \dots\dots\dots$

11) $54.45 \div 0.9 = \dots\dots\dots$

12) $4.8 \div 0.16 = \dots\dots\dots$

13) Fifth of 15 =



- 14) $\frac{2}{3}$ of 27 =
- 15) The number of $\frac{2}{5}$ in 2 is
- 16) $\frac{3}{4} \div m = \frac{3}{8}$, then m =
- 17) $\frac{3}{4} \times m = \frac{3}{8}$, then m =
- 18) $5 \div \frac{2}{3} = 5 \times$

Q3 Answer the following :-

- 1) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram , how much money would you pay ?
- 2) Maria covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute ?
- 3) If the price of one meter of cloth 9.8 , what is the cost of 1.5 meters of cloth ?
- 4) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap ?
- 5) Soha divided 127.5 L.E. among her three sons. Find the share of each one.

Unit 9

Q1 Choose the correct answer :-

- 1) The ratio between 6:14 in the simplest form is 3:.....
a) 2 b) 3 c) 11 d) 7
- 2) The ratio between two side lengths of square:.....
a) 1:4 b) 2:4 c) 1:1 d) 1:2
- 3) To find the simplest form of the ratio 6:12, we divide the two terms by
a) 2 b) 3 c) 6 d) 1
- 4) If the ratio between apples to oranges is 4 : 7, then ratio between oranges to apples is
a) 11:7 b) 7:4 c) 7:11 d) 4:7
- 5) The total number of students in a class is 40 and the boys are 15 , then the ratio between girls and boys is
a) 3:5 b) 5:3 c) 3:8 d) 5:8
- 6) If the ratio between two numbers is 1:3 and the first number is 3 , then the second number is
a) 9 b) 3 c) 6 d) 12
- 7) If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 24 , then the number of red is
a) 18 b) 32 c) 44 d) 12
a) 2:3 b) 2:4 c) 1:4 d) 1:3
- 8) The next ratio of 3:6 , 6,12 , 12:24 ,
a) 24:48 b) 36:72 c) 24:27 d) 12:24
- 9) If the ratio between a and b is 1 :4 and the sum of a and b is 20 ,then b =
a) 16 b) 4 c) 5 d) 80
- 10) If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is
a) 15 b) 1 c) 5 d) 20
- 11) If the ratio between two numbers is 2:5 and the smaller number is 10, then the greater number is
a) 13 b) 4 c) 7 d) 25

12) If 2:7 is equivalent to X:21 , then X =

- a) 12 b) 6 c) 7 d) 21

13) If $\frac{8}{X}$ is equivalent to $\frac{1}{2}$, then X =

- a) 16 b) 4 c) 8 d) 40

14) If $\frac{4}{7}$ is equivalent to $\frac{X}{35}$, then X - 3 =

- a) 20 b) 23 c) 17 d) 2

15) If the ratio $\frac{3}{4}$ is equivalent to X : 12 , then X + 5 =

- a) 14 b) 8 c) 9 d) 12

16) Maria bought 2 kg of banana for 30 L.E. How much money does she pay to buy 6 kg?

- a) 15 b) 34 c) 90 d) 60

17) From the following equivalent ratios B + A =

2	6	B
5	A	25

- a) 2:3 b) 5 c) 25 d) 31

18) The opposite tape diagram represents the ratio

- a) 4:3 b) 3:4 c) 3:5 d) 1:3

19) Which ratio is equal to 3:4?

- a) $\frac{5}{6}$ b) $\frac{15}{20}$ c) $\frac{10}{20}$ d) $\frac{6}{10}$

20) $\frac{a}{b} = \frac{c}{d}$ Which of the following is true ?

- a) $a \times b = c \times d$ b) $a \times c = b \times d$ c) $a \times d = c \times b$ d) $c \times b = d \times b$

21) If $\frac{X+2}{5} = \frac{28}{35}$, then X =

- a) 2 b) 4 c) 8 d) 6

22) If $\frac{X}{2} = \frac{8}{X}$, where X is a natural number , then X =

- a) 2 b) 4 c) 8 d) 6

23) If $\frac{3}{0.5} = \frac{X}{1}$, then X =

- a) 2 b) 3 c) 9 d) 6

24) $\frac{3}{5}$ is NOT equivalent to

- a) $\frac{6}{10}$ b) $\frac{9}{15}$ c) $\frac{12}{25}$ d) $\frac{18}{30}$



25) If $\frac{X}{2^2} = \frac{2}{1}$, then $X + 1 =$

a) 10

b) 4

c) 8

d) 9

26) The simplest form of the ratio 550 to 770 is

a) 7 to 5

b) $\frac{55}{75}$

c) 55:7

d) 5:7

27) The product of extremes The product of means

a) <

b) >

c) =

28) 30 L.E. for 5 kg , then the cost of 30 kg is

a) 5

b) 30

c) 180

d) 90



Q2 Complete the following :-

- 1) if the ratio between two numbers is 4 : 3 and the sum of them is 14, then the two numbers are
- 2) The first term in the ratio 4 : 7 is
- 3) The simplest form of the ratio 12 to 20 is
- 4) $\frac{5}{8} = \frac{15}{\dots}$
- 5) $\frac{35}{42} = \frac{\dots}{6}$
- 6) If the ratio between **a** and **b** is 3 : 8 , and **b** is 16 , then a =
- 7) The ratio between two numbers is 4 : 5 and the greater number is 20 ,then the smaller number is
- 8) If 4 to 9 is equivalent to $\frac{x}{36}$ then x =
- 9) If **Farida** has 50 pounds and **Malak** has 25 pounds. Find the **ratio** between what **Malak** has and the **total** sum of money in simplest form is
- 10) If the ratio $\frac{7}{8}$ is equivalent to 14 : X , then x - 2
- 11) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is
- 12) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{x-1}$, then X =
- 13) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for km
- 14) If $\frac{5}{x} = \frac{15}{12}$, then 2X =
- 15) The ratio between side length of square and its perimeter is:.....
- 16) The ratio between side of equilateral triangle and its perimeter is ...:...
- 17) The ratio between perimeter of rhombus and its side length is:.....

Q3 Answer the following :-

- 1) A car consumed 640 L of gasoline in 4 months , how many liters did the car consume in one month ?
- 2) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg ?
- 3) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6 kg ?
- 4) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed.
- 5) Find the value of X in each of the following :
 - a) $\frac{X-1}{5} = \frac{20}{25}$
 - b) $\frac{4}{7} = \frac{X+3}{28}$

- 6) From the opposite figure $X + Y = \dots\dots\dots$

3	12	x
5	y	10



- 7) From the opposite figure , $AC:FC = \dots\dots\dots$

- 8) Find the missing number in the following :

Time [seconds]	0	2	4	6	8
Distance [meters]	0	8		24	32

3	9	—
7	—	28

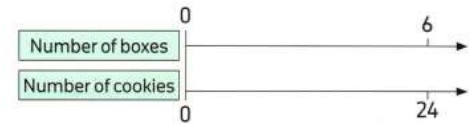
4	—
5	10

- 9) The opposite table shows the ratio between boys and girls , then :

- a) The value of A =
- b) The value of B =
- c) The value of C-B =

Boys	Girls	Total
5	7	A
B	C	48

- 10) There are 24 cookies in 6 boxes, then find the number of cookies in 3 boxes using double number line .



- 11) From the opposite tape diagram , if the sum of boys and girls is 35 , then each box equals



Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is not a unit rate ?

- a) 140 L.E.weekly b) 90 km per 60 minutes c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 d) 180

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

- a) 1 b) 5 c) 10 d) 20

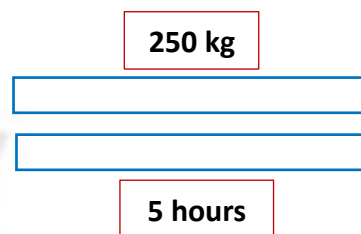
4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.	.....	.....	.....	200

- a) 40 , 80 , 120 b) 50 , 100 , 150 c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is

- a) 250 km per 5 hours b) 50 km per hour
c) 55 km per hour d) 100 km per 2 hours



6) By using the opposite double number Line , the unit rate is

- a) 60 kg per day b) 30 kg per day c) 60 kg per 2 days d) 100 kg per 3 days



7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ c) $\frac{7days}{1week}$ d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year c) 1000 mm = 1 liter d) $\frac{1min}{60sec}$



9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

- a) 12000 b) 200 c) 720 d) 1200

12) 3.6 L $\times$ = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

- a) 60 b) 10 c) 3600 d) 0.1

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L $\times$ = 4800 ml

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

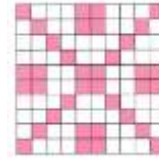
- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60



20) $3 : 10 = \dots\dots\dots \%$

- a) 30 b) 12 c) 25 d) 36

21) The opposite shaded area represents each of the following except



- a) 36 b) 0.36 c) 36% d) $\frac{9}{25}$

22) 50% of a number =

- a) the whole number b) half of a number c) third of a number d) quarter of number

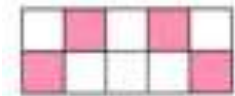
23) Which value is NOT equivalent to 55% ?

- a) $\frac{11}{20}$ b) $\frac{55}{100}$ c) 0.55 d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

- a) 25 b) 125 c) 75 d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



- a) 0.4 b) 40 c) 4 d) 60

26) $1 - 25\% = \dots\dots\dots$

- a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

- a) 62 b) 42 c) 48 d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

- a) exactly b) less than c) more than d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

- a) 24 b) 12 c) 18 d) 6



30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 d) 300

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5 b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 b) 1 c) 4 d) 5

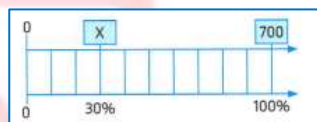
33) 40% of a number = % of half of the same number.

- a) 20 b) 10 c) 80 d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

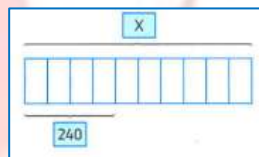
- a) 20 b) 200 c) 400 d) 2000

35) From the opposite double number
line $X =$



- a) 70 b) 210 c) 140 d) 420

36) From the opposite diagram
 $X =$



- a) 600 b) 400 c) 240 d) 2400

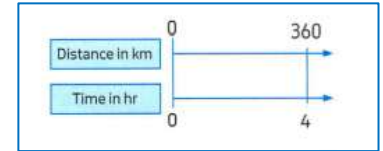
37) 25% of 1000 = 50% of

- a) 2000 b) 1500 c) 1250 d) 500

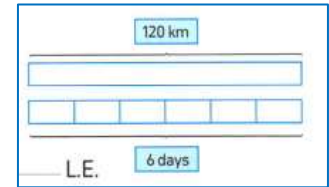


Q2 / Complete the following :-

1) From the opposite double number line , the unit rate is



2) The unit rate from the opposite tape diagram is



3) gm = 30 kg

4) 1,500 kg = gm.

5) 2.5 hr = min.

6) 60 meters per min = meter(s) per sec.

7) 54 L.E. for 9 kg , then the cost of 6 kg is

8) 48 km per hr = meter per min

9) 120 km per hour = meter per min.

10) The percentage is a ratio

11) $36\% + 24\% - 17\% = \dots\dots\dots$

12) $12\% - 4\% = \dots\dots\dots$

13) $1 - (39\% + 0.21) = \dots\dots\dots \%$

14) $1 - \frac{3}{4} = \dots\dots\dots \%$

15) $\frac{7}{3} \times \frac{3}{7} = \dots\dots\dots \%$

16) $15\% - 0.15 = \dots\dots\dots$

17) $225\% - 1\frac{1}{4} = \dots\dots\dots$

18) $0.35 + \frac{9}{20} = \dots\dots\dots \%$

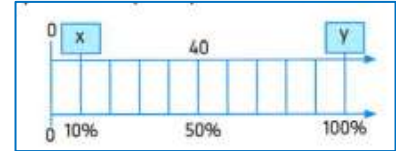
19) $15\% + 0.35 + \frac{1}{2} = \dots\dots\dots \%$

20) $35\% \div \frac{7}{20} = \dots\dots\dots \%$

21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then x =

22) 10 % of 50 kg = kg.

- 23) A store offers a discount 10% off on a shirt of price 300 L.E. ,then the discount = L.E.
- 24) $32\% = 1 - \dots\dots\dots \%$
- 25) If the price of a ball is 120 L.E. then 10% of its price is L.E.
- 26) 25% of 1,000 = 50% of
- 27) From the opposite double number line ,
the value of $x + y = \dots\dots\dots$
- 28) 15% of 240 kg = kg
- 29) 2 to 5 = %
- 30) % of 600 L.E. = 120 L.E.
- 31) 20% of a number = % of half of the same number.
- 32) 45% of a kilometer = m



Q3 / Answer the following :-

- 1) Which is the longest 1.34 m or 200 cm ?**
- 2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?**
- 3) Is (490 pounds per 7 kg of apples) a unit rate or not?**
- 4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?**
- 5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations**
- 6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?**
- 7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?**

- 8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?
- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.
- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount
- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?
- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?
- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?
- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?

15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?

16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

17) Find the value of X

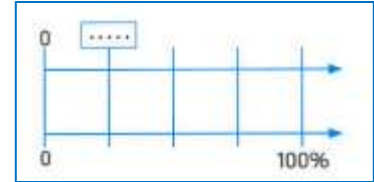
a) $\frac{x}{8} = \frac{10}{20}$

b) $\frac{x+1}{10} = 30\%$

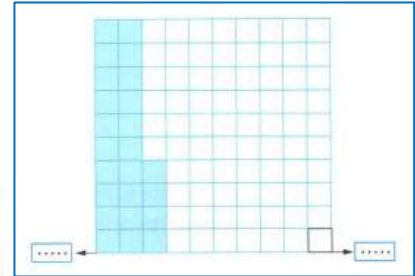
c) $\frac{2}{x+8} = 5\%$

18) Find the value of each of the following by using the given model .

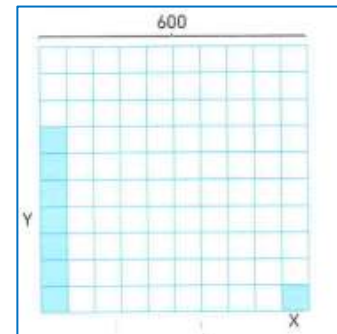
a) 25% of 80



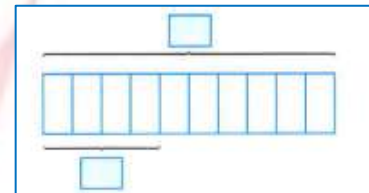
b) 24% of a number is 72



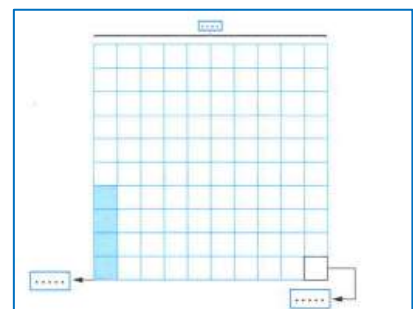
19) From the opposite 10 × 10 grid , Find: X + Y



20) If 40% of a number is 140 find ,
that number by using the opposite tape
diagram .



21) Find the value of 4% of 200 by using the
opposite 10 × 10 grid.



- 22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question:

The total	The part	Percentage
.....		

- 23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
.....		

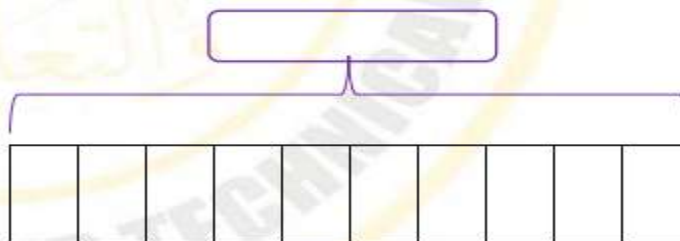
- 24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday.

Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



- 25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday.

Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



Answers

Unit 8

Q1 Choose the correct answer :-

1) $\frac{4}{7} \div \dots = 1\frac{1}{2}$

a) $\frac{8}{21}$

b) $\frac{21}{8}$

c) $\frac{6}{7}$

d) $\frac{7}{6}$

2) $\dots \div \frac{3}{8} = \frac{5}{6}$

a) $\frac{18}{40}$

b) $\frac{15}{16}$

c) $\frac{1}{2}$

d) $\frac{5}{16}$

3) $\dots \times \frac{2}{5} = \frac{4}{14}$

a) $\frac{2}{3}$

b) $\frac{5}{7}$

c) $\frac{3}{2}$

d) 3

4) $\dots \times 1\frac{1}{2} = 1$

a) $\frac{2}{3}$

b) $\frac{1}{3}$

c) $\frac{3}{2}$

d) 3

5) $\frac{3}{5} \times \dots = 1$

a) $\frac{8}{5}$

b) $\frac{3}{5}$

c) $1\frac{2}{3}$

d) 1

6) Half of 22 =

a) 11

b) 22

c) 44

d) 2

7) How many $\frac{1}{6}$ s are there in $\frac{1}{2}$ apple ?

a) 1

b) 12

c) 3

d) $\frac{1}{3}$

8) How many $\frac{3}{4}$ s are there in 6 apple ?

a) 8

b) $\frac{18}{4}$

c) 7

d) $4\frac{1}{2}$

9) $87.29 \div 0.29 = 872.9 \div \dots$

a) 2.9

b) 29

c) 290

d) 0.29

10) $327 \div 24 = 3.27 \div \dots$

a) 2.4

b) 0.24

c) 24

d) 2004

11) If $123 \times 45 = 5535$, then $1.23 \times 4.5 = \dots$

a) 55.35

b) 553.5

c) 5.535

d) 5535

12) If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$



a) 0.312

b) 3.12

c) 31.2

d) 312

13) $48 \times 36 = 1728$ then $17.28 \div 3.6 = \dots\dots\dots$

a) 48

b) 480

c) 0.48

d) 4.8

14) $0.33 \div 0.011 = \dots\dots\dots \div 11$

a) 33

b) 0.33

c) 330

d) 3300

15) Yara uses $\frac{6}{8}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake ?a) $\frac{12}{8}$ b) $\frac{3}{8}$ c) $\frac{2}{8}$ d) $\frac{1}{8}$ 16) $\frac{2}{3} \div \frac{1}{3} \dots\dots\dots \frac{1}{2}$

a) <

b) >

c) =

17) Any number multiplied by its reciprocal equals

a) same number

b) 0

c) 1

d) double number

Q2 Complete the following :-

1) The reciprocal of $3\frac{3}{4}$ is $\frac{4}{15}$ 2) $\frac{4}{3} \div \frac{2}{9} = 6$ (simplest form)3) $5 \div \frac{1}{2} = 10$ (simplest form)4) $\frac{3}{4} \div 3 = \frac{1}{4}$ (simplest form)5) $\frac{3}{5} \div \frac{3}{5} = 1$ (simplest form)6) $\frac{2}{7} \div \frac{2}{4} = \frac{4}{7}$ (simplest form)7) $\frac{1}{4} \times 4 = 1$ 8) $0.65 \times 0.2 = 0.13$ 9) $0.676 \times 0.1 = 0.0676$ 10) $2.4 \times 3.6 = 8.64$ 11) $54.45 \div 0.9 = 60.6$ 

12) $4.8 \div 0.16 = 30$

13) Fifth of 15 = 3

14) $\frac{2}{3}$ of 27 = 18

15) The number of $\frac{2}{5}$ in 2 is 5

16) $\frac{3}{4} \div m = \frac{3}{8}$, then $m = 2$

17) $\frac{3}{4} \times m = \frac{3}{8}$, then $m = \frac{1}{2}$

18) $5 \div \frac{2}{3} = 5 \times \frac{3}{2}$

Q3 Answer the following :-

- 1) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram , how much money would you pay ? **60.75 L.E**
- 2) Maria covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute ? **$\frac{2}{15}$ K.m**
- 3) If the price of one meter of cloth 9.8 , what is the cost of 1.5 meters of cloth ? **14.7 L.E**
- 4) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap ? **$\frac{2}{5}$**
- 5) Soha divided 127.5 L.E. among her three sons. Find the share of each one. **42.5 L.E**



Unit 9

Q1 Choose the correct answer :-

- 1) The ratio between 6:14 in the simplest form is 3:.....
a) 2 b) 3 c) 11 d) 7
- 2) The ratio between two side lengths of square:.....
a) 1:4 b) 2:4 c) 1:1 d) 1:2
- 3) To find the simplest form of the ratio 6:12, we divide the two terms by
a) 2 b) 3 c) 6 d) 1
- 4) If the ratio between apples to oranges is 4 : 7, then ratio between oranges to apples is
a) 11:7 b) 7:4 c) 7:11 d) 4:7
- 5) The total number of students in a class is 40 and the boys are 15 , then the ratio between girls and boys is
a) 3:5 b) 5:3 c) 3:8 d) 5:8
- 6) If the ratio between two numbers is 1:3 and the first number is 3 , then the second number is
a) 9 b) 3 c) 6 d) 12
- 7) If the ratio of the number of red balls to the number of blue balls is 3 : 4 and the number of blue is 24 , then the number of red is
a) 18 b) 32 c) 44 d) 12
- 8) The next ratio of 3:6 , 6,12 , 12:24 ,
a) 24:48 b) 36:72 c) 24:27 d) 12:24
- 9) If the ratio between a and b is 1 : 4 and the sum of a and b is 20 ,then b =
a) 16 b) 4 c) 5 d) 80
- 10) If the ratio between oranges and bananas is 3 : 4 and the number of bananas is 20, then the difference between them is
a) 15 b) 1 c) 5 d) 20
- 11) If the ratio between two numbers is 2:5 and the smaller number is 10, then the greater number is
a) 13 b) 4 c) 7 d) 25
- 12) If 2:7 is equivalent to X:21 , then X =

- a) 12 **b) 6** c) 7 d) 21
- 13) If $\frac{8}{X}$ is equivalent to $\frac{1}{2}$, then $X = \dots\dots\dots$
- a) 16 b) 4 c) 8 d) 40
- 14) If $\frac{4}{7}$ is equivalent to $\frac{X}{35}$, then $X - 3 = \dots\dots\dots$
- a) 20 b) 23 **c) 17** d) 2
- 15) If the ratio $\frac{3}{4}$ is equivalent to $X : 12$, then $X + 5 = \dots\dots\dots$
- a) 14 b) 8 c) 9 d) 12
- 16) Maria bought 2 kg of banana for 30 L.E. How much money does she pay to buy 6 kg?
- a) 15 b) 34 **c) 90** d) 60
- 17) From the following equivalent ratios $B + A = \dots\dots\dots$
- a) 2:3 b) 5 **c) 25** d) 31
- 18) The opposite tape diagram represents the ratio
- | | | |
|---|---|----|
| 2 | 6 | B |
| 5 | A | 25 |
- a) 4:3** b) 3:4 c) 3:5 d) 1:3
- 19) Which ratio is equal to 3:4?
- | | | | |
|--|--|--|--|
| | | | |
| | | | |
- a) $\frac{5}{6}$ **b) $\frac{15}{20}$** c) $\frac{10}{20}$ d) $\frac{6}{10}$
- 20) $\frac{a}{b} = \frac{c}{d}$ Which of the following is true ?
- a) $a \times b = c \times d$ b) $a \times c = b \times d$ **c) $a \times d = c \times b$** d) $c \times b = d \times b$
- 21) If $\frac{X+2}{5} = \frac{28}{35}$, then $X = \dots\dots\dots$
- a) 2** b) 4 c) 8 d) 6
- 22) If $\frac{X}{2} = \frac{8}{X}$, where X is a natural number, then $X = \dots\dots\dots$
- a) 2 **b) 4** c) 8 d) 6
- 23) If $\frac{3}{0.5} = \frac{X}{1}$, then $X = \dots\dots\dots$
- a) 2 b) 3 c) 9 **d) 6**
- 24) $\frac{3}{5}$ is NOT equivalent to
- a) $\frac{6}{10}$ b) $\frac{9}{15}$ **c) $\frac{12}{25}$** d) $\frac{18}{30}$
- 25) If $\frac{X}{22} = \frac{2}{1}$, then $X + 1 = \dots\dots\dots$
- a) 10 b) 4 c) 8 d) 9

- 26) The simplest form of the ratio 550 to 770 is
a) 7 to 5 b) $\frac{55}{75}$ c) 55:7 d) 5:7
- 27) The product of extremes The product of means
a) < b) > c) =
- 28) 30 L.E. for 5 kg , then the cost of 30 kg is
a) 5 b) 30 c) 180 d) 90

Q2 Complete the following :-

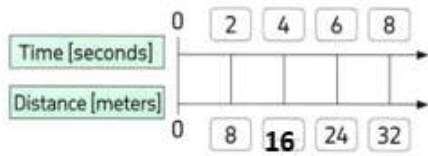
- 1) if the ratio between two numbers is 4 : 3 and the sum of them is 14, then the two numbers are 8 and 6
- 2) The first term in the ratio 4 : 7 is 4
- 3) The simplest form of the ratio 12 to 20 is 3 : 5
- 4) $\frac{5}{8} = \frac{15}{24}$
- 5) $\frac{35}{42} = \frac{5}{6}$
- 6) If the ratio between a and b is 3 : 8 , and b is 16 , then a = 6
- 7) The ratio between two numbers is 4 : 5 and the greater number is 20 ,then the smaller number is 16
- 8) If 4 to 9 is equivalent to $\frac{x}{36}$ then x = 16
- 9) If Farida has 50 pounds and Malak has 25 pounds , then the ratio between what Malak has and the total sum of money in simplest form is 1 : 3
- 10) If the ratio $\frac{7}{8}$ is equivalent to 14 : X , then x - 2 is 14
- 11) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is 8 : 32
- 12) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{x-1}$, then X = 28
- 13) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for 75 km
- 14) If $\frac{5}{x} = \frac{15}{12}$, then 2X = 8
- 15) The ratio between side length of square and its perimeter is 1 : 4
- 16) The ratio between side of equilateral triangle and its perimeter is 1 : 3
- 17) The ratio between perimeter of rhombus and its side length is 1 : 4

Q3 Answer the following :-

- 1) A car consumed 640 L of gasoline in 4 months , how many liters did the car consume in one month ? **160 liters**
- 2) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg ? **60 L.E**
- 3) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6 kg ? **90 L.E**
- 4) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed. **16 K.m**
- 5) Find the value of X in each of the following :
- c) $\frac{X-1}{5} = \frac{20}{25}$ **x = 5**
- d) $\frac{4}{7} = \frac{X+3}{28}$ **x = 13**
- 6) From the opposite figure $X + Y = 6 + 20 = 26$
- 7) From the opposite figure , $AC:FC = 2 : 3$
- 8) Find the missing number in the following :

3	12	x
5	y	10





3	9	12
7	21	28

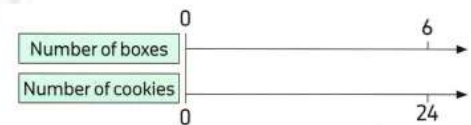
4	8
5	10

9) The opposite table shows the ratio between boys and girls , then :

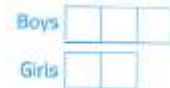
- a) The value of A = 12
- b) The value of B = 20
- c) The value of C-B = 8

Boys	Girls	Total
5	7	A
B	C	48

10) There are 24 cookies in 6 boxes, then find the number of cookies in 3 boxes using double number line . 12 cookies



11) From the opposite tape diagram , if the sum of boys and girls is 35 , then each box equals 5



Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is a unit rate ?

- a) 140 L.E.weekly **b) 90 km per 60 minutes** c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 **d) 180**

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

- a) 1 b) 5 **c) 10** d) 20

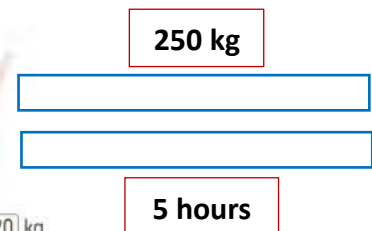
4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.	.....	.....	.....	200

- a) 40 , 80 , 120 **b) 50 , 100 , 150** c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is

- a) 250 km per 5 hours **b) 50 km per hour**
c) 55 km per hour d) 100 km per 2 hours



6) By using the opposite double number line , the unit rate is

- a) 60 kg per day **b) 30 kg per day** c) 60 kg per 2 days d) 100 kg per 3 days



7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ **c) $\frac{7days}{1week}$** d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year **c) 1000 mm = 1 liter** d) $\frac{1min}{60sec}$

9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

- a) 12000 b) 200 c) 720 d) 1200

12) 3.6 L $\times$ = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

- a) 60 b) 10 c) 3600 d) 0.1

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L $\times$ = 4800 ml

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ L}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60

20) $3 : 10 = \dots\dots\dots \%$

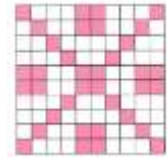
a) 30

b) 12

c) 25

d) 36

21) The opposite shaded area represents each of the following except



a) 36

b) 0.36

c) 36%

d) $\frac{9}{25}$

22) 50% of a number =

a) the whole number

b) half of a number

c) third of a number

d) quarter of number

23) Which value is NOT equivalent to 55% ?

a) $\frac{11}{20}$ b) $\frac{55}{100}$

c) 0.55

d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

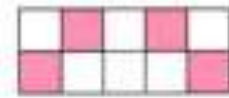
a) 25

b) 125

c) 75

d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



a) 0.4

b) 40

c) 4

d) 60

26) $1 - 25\% = \dots\dots\dots$

a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

a) 62

b) 42

c) 48

d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

a) exactly

b) less than

c) more than

d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

a) 24

b) 12

c) 18

d) 6



30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 d) 300

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5 b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 b) 1 c) 4 d) 5

33) 40% of a number = % of half of the same number.

- a) 20 b) 10 c) 80 d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

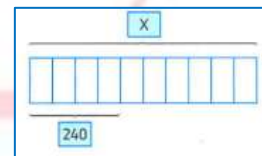
- a) 20 b) 200 c) 400 d) 2000

35) From the opposite double number
line $X =$



- a) 70 b) 210 c) 140 d) 420

36) From the opposite diagram
 $X =$



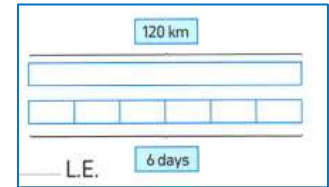
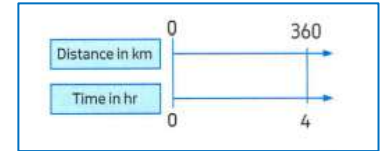
- a) 600 b) 400 c) 240 d) 2400

37) 25% of 1000 = 50% of

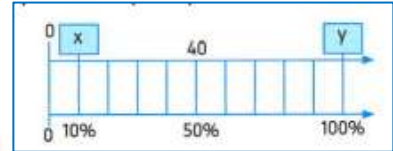
- a) 2000 b) 1500 c) 1250 d) 500

Q2 / Complete the following :-

- 1) From the opposite double number line , the unit rate is 90 km per hour
- 2) The unit rate from the opposite tape diagram is 20 km per day
- 3) 30,000 gm = 30 kg
- 4) 1,500 kg = 1,500,000 gm.
- 5) 2.5 hr = 150 min.
- 6) 60 meters per min = 1 meter(s) per sec.
- 7) 54 LE. for 9 kg , then the cost of 6 kg is 36 LE.
- 8) 48 km per hr = 800 meter per min
- 9) 120 km per hour = 2000 meter per min.
- 10) The percentage is a ratio its second term is 100.
- 11) $36\% + 24\% - 17\% = 43\%$
- 12) $12\% - 4\% = 8\%$
- 13) $1 - (39\% + 0.21) = 40\%$
- 14) $1 - \frac{3}{4} = 25\%$
- 15) $\frac{7}{3} \times \frac{3}{7} = 100\%$
- 16) $15\% - 0.15 = 0$
- 17) $225\% - 1\frac{1}{4} = 100\% = 1$
- 18) $0.35 + \frac{9}{20} = 80\%$
- 19) $15\% + 0.35 + \frac{1}{2} = 100\%$
- 20) $35\% \div \frac{7}{20} = 100\%$
- 21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then $x = 13$
- 22) 10 % of 50 kg = 5 kg



- 23) A store offers a discount 10% off on a shirt of price 300 LE. ,then the discount = 30 L.E.
- 24) $32\% = 1 - 68\%$
- 25) If the price of a ball is 120 LE.then 10% of its price is 12 LE.
- 26) $25\% \text{ of } 1,000 = 50\% \text{ of } 500$
- 27) From the opposite double number line ,
the value of $x + y = 88$
- 28) $15\% \text{ of } 240 \text{ kg} = 36 \text{ kg}$
- 29) $2 \text{ to } 5 = 40\%$
- 30) $20\% \text{ of } 600 \text{ L.E.} = 120 \text{ L.E.}$
- 31) $20\% \text{ of a number} = 50\% \text{ of half of the same number.}$
- 32) $45\% \text{ of a kilometer} = 450 \text{ m}$



Q3 / Answer the following :-

1) Which is the longest 1.34 m or 200 cm ?

200

2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?

$\frac{1}{4}$ km

3) Is (490 pounds per 7 kg of apples) a unit rate or not?

Not

4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?

Second is better

5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations

20 L

6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?

60 boxes

7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?

17500 LE.

8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?



2700 LE.

- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.

24,000 LE.

- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount.

1,280 LE.

- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?

9.6 m

- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?

8 students

- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?

150 children

- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?

25 boxes

- 15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?



$$10\% \times 900 = 90$$

$$90 \times 3 = 270 \text{ pounds.}$$

- 16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

$$\text{Discount (saved money)} = 40\% \times 1200 = 480 \text{ pounds.}$$

$$\text{Price after} = 1200 - 480 = 720 \text{ pounds.}$$

- 17) Find the value of X

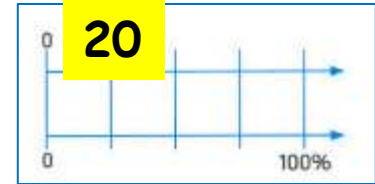
$$\text{a) } \frac{x}{8} = \frac{10}{20}$$
$$x = 4$$

$$\text{b) } \frac{x+1}{10} = 30\%$$
$$x = 2$$

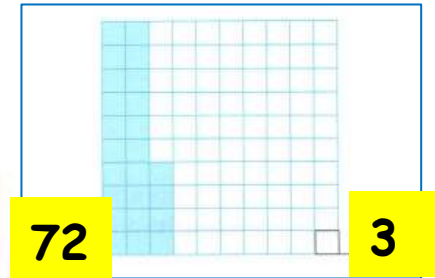
$$\text{c) } \frac{2}{x+8} = 5\%$$
$$x = 32$$

18) Find the value of each of the following by using the given model .

a) 25% of 80 = 20

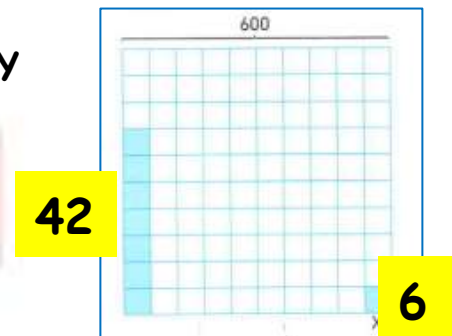


b) 24% of a number is 72 , number = 300

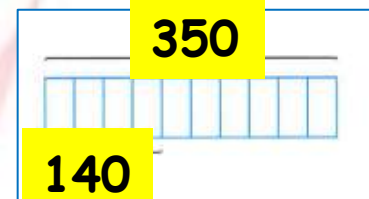


19) From the opposite 10 x 10 grid , Find: X + Y

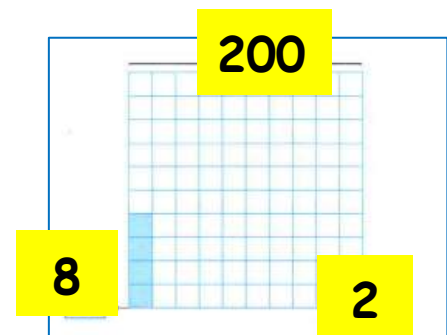
42 + 6 = 48



20) If 40% of a number is 140 find ,
that number by using the opposite tape
diagram . number is 350



21) Find the value of 4% of 200 by using the
opposite 10 x 10 grid. = 8



- 22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question.

The total	The part	Percentage
10	5	50%

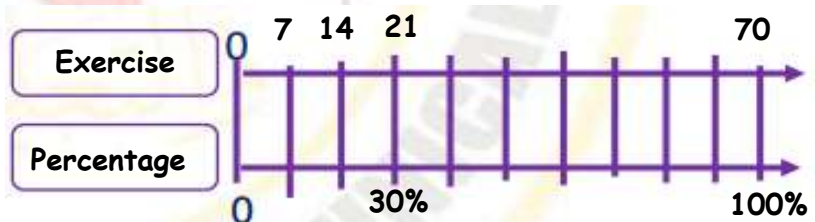
- 23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
1200	300	25%

- 24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday.

Percentage = 30%

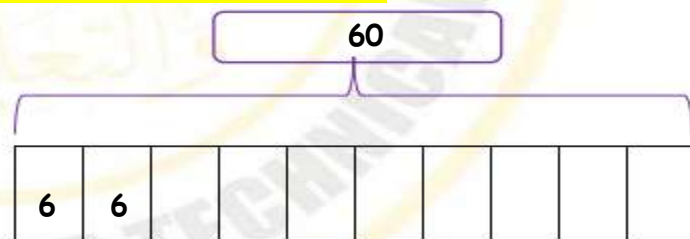
Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



- 25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday.

Percentage = 20%

Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



12 out of 60
= 20%

حمل الآن

مجاناً وحصرياً

المراجعة رقم (7)

اختبار شهر مارس



Choose the correct answer:

1

$5 \div \frac{1}{10} = \dots\dots\dots$

a

$\frac{5}{10}$

b

$\frac{10}{5}$

c

2

d

50

2

$\frac{3}{5} \text{ of } \frac{5}{3} = \dots\dots\dots$

a

$\frac{35}{53}$

b

1

c

$\frac{3}{5}$

d

$\frac{5}{3}$

3

$\dots\dots \div \frac{3}{7} = \frac{7}{6}$

a

$\frac{1}{2}$

b

$\frac{37}{76}$

c

1

d

$\frac{1}{3}$

4

$\text{Half of } \frac{10}{7} = \dots\dots\dots$

a

$\frac{5}{3}$

b

$\frac{7}{10}$

c

$\frac{5}{7}$

d

$\frac{1}{2}$

5

$37.23 \div 0.35 = \dots\dots\dots \div 35$

a

37.23

b

372.3

c

3723

d

0.3723

6

$\dots\dots \times \frac{5}{8} = \frac{5}{6}$

a

$1\frac{1}{3}$

b

$\frac{25}{48}$

c

$\frac{1}{2}$

d

$8\frac{2}{5}$

7

The simplest form of the ratio 12 : 15 is = $\dots\dots\dots$ **a**

$\frac{24}{30}$

b

$\frac{4}{5}$

c

$\frac{3}{4}$

d

$\frac{1}{5}$

8

$5.4 \times 0.02 = \dots\dots\dots$

a

10.8

b

108

c

0.108

d

1.08

9

The simplest form of the ratio 2500 : 3500 is = $\dots\dots\dots$ **a**

2 : 3

b

3 : 2

c

5 : 7

d

1 : 2

10

$\frac{5}{7} \text{ of } 21 = \dots\dots\dots$



a 5 **b** 7 **c** 35 **d** 15

11

The simplest form of the ratio 14 : 21 is =

a 2 : 3 **b** 3 : 2 **c** 5 : 7 **d** 1 : 2

12

If the ratio between a : b is 2 : 3 and b is 9, then a =

a 2 **b** 3 **c** 5 **d** 6

13

The product of any number $\times$ its reciprocal =

a 0 **b** 1 **c** Half **d** Third

14

$$\frac{1}{2} \bigcirc \frac{3}{4} \div \frac{1}{2}$$

a < **b** > **c** = **d** $\leq$

15

$$\frac{7}{4} \div \frac{3}{4} = \dots\dots\dots$$

a $2\frac{1}{3}$ **b** $3\frac{1}{2}$ **c** $\frac{7}{4}$ **d** $\frac{3}{4}$

16

In the equivalent ratios: the product of extremes $\bigcirc$ the product of means.

a < **b** > **c** = **d** $\leq$

17

From the opposite bar model:

$$4 \div \frac{1}{3} = \dots\dots\dots$$

1	1	1	1
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

a $\frac{3}{4}$ **b** 4 **c** 12 **d** 6

18

$$0.2 \times 0.3 = \dots\dots\dots$$

a 0.6 **b** 0.06 **c** 0.60 **d** 6

19

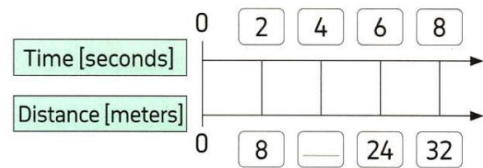
If: $112 \times 32 = 3584$, then: $1.12 \times 3.2 = \dots\dots\dots$

a 358.4 **b** 35.84 **c** 3.584 **d** 0.3584



20

The missing number in the opposite double number line is



- a** 2 **b** 4 **c** 16 **d** 20

21

If: $\frac{5}{7} = \frac{x}{21}$, then $x =$

- a** 5 **b** 7 **c** 15 **d** 21

22

The reciprocal of $\frac{3}{7}$ is

- a** $\frac{3}{7}$ **b** $\frac{7}{3}$ **c** $\frac{1}{7}$ **d** 1

23

The reciprocal of 9 is

- a** 9 **b** 1 **c** 0 **d** $\frac{1}{9}$

24

The reciprocal of $2\frac{2}{3}$ is

- a** $\frac{3}{2}$ **b** $2\frac{3}{2}$ **c** $\frac{3}{8}$ **d** $\frac{8}{3}$

25

The ratio between two side lengths of a square =

- a** 1 : 4 **b** 1 : 2 **c** 1 : 1 **d** 2 : 4

26

If: $\frac{a}{b} = \frac{c}{d}$, then

- a** $a \times b = c \times d$ **b** $a \times c = b \times d$ **c** $a \times b = c \times b$ **d** $a \times d = c \times b$

27

$7 \div \dots = 7 \times 5$

- a** $\frac{1}{5}$ **b** $\frac{1}{7}$ **c** 5 **d** 35

28

From the opposite tape diagram, the ratio between boys and girls =



- a** 2 : 5 **b** 5 : 2 **c** 2 : 7 **d** 5 : 7



29

A factory produces 2400 m of cloths each 12 hours, then the unit rate =

- a** 2412 m/hr. **b** 2 m/hr. **c** 20 m/hr. **d** 200 m/hr.

30

If the cost of 5 kg is 30 L. E., then the unit rate is LE/kg

- a** 5 **b** 6 **c** 30 **d** 150

31

The percentage of boys in a school is 60%, then the percentage of girls is ...

- a** 40% **b** 100% **c** 60% **d** 20%

32

To convert from years to months, we use the conversion factor ...

- a** $\frac{1 \text{ year}}{12 \text{ months}}$ **b** $\frac{12 \text{ months}}{1 \text{ year}}$ **c** $\frac{1 \text{ year}}{1 \text{ month}}$ **d** $\frac{1 \text{ month}}{12 \text{ years}}$

33

30% =

- a** 0.2 **b** 0.3 **c** 0.5 **d** 0.6

34

 $1 - 75\% = \dots$

- a** $\frac{1}{2}$ **b** $\frac{1}{4}$ **c** $\frac{1}{3}$ **d** $\frac{1}{5}$

35

 $5 : 10 = \dots\%$

- a** 25 **b** 30 **c** 40 **d** 50

36

Half of a Pizza 25% of a Pizza.

- a** < **b** > **c** = **d** $\neq$

37

20% of 400 kg = kg

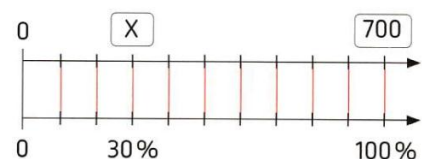
- a** 8 **b** 80 **c** 800 **d** 8000

38

 $15\% = 10\% + \dots\%$

- a** 1 **b** 5 **c** 10 **d** 20

39

From the opposite double number line,
X =

- a** 70 **b** 140 **c** 210 **d** 420



Essay Problems:

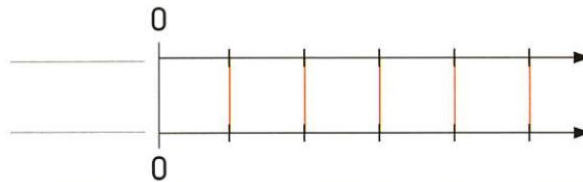
1 Samy drinks 14 glasses of milk weekly, then he drinks glasses/day.

2 In a farm, the ratio between rabbits and sheep is 3 : 5 and the number of sheep is 35. What is the number of rabbits?

3 If $3 : 7 = x : 28$, then find the value of $x - 2$.

The following table shows the covered distance of cat in meters and the time taken in seconds. Represent this data by double number line and find the value of A and B

Distance in meters	2	4	A	8
Time in seconds	4	8	12	B



5 In a juice shop: 3 kg of strawberry were squeezed to provide 9 cups of juice. If 6 kg were squeezed, how many cups we obtained?

6 If the price of one meter of cloth is L.E. 9.8, what is the cost of 1.5 meter of the same cloth?

7 Ali covered $\frac{2}{3}$ km in 5 minutes. What is the distance covered in one minute?

8 A jeans is of 700 pounds has a discount 20 %. What is the discount?



9

Write the multiplication equation to check the solution of $\frac{3}{6} \div \frac{1}{6} = 3$

.....

10

Shaimaa has 4 liters of juice and wants to divide them into bottles of capacity $\frac{2}{3}$ liters. How many bottles needed?

11

Find the result of:

a) $\frac{3}{7} \div \frac{1}{14} =$

b) $\frac{2}{3} \div 3 =$

12

Put the following ratios in the simplest form:

a) $\frac{9}{15} =$ b) $\frac{8}{32} =$

13

Convert the speed 3.5 km/hr. into meters/second.

.....

14

You got 7 marks out of 10 marks in the Math exam. What is the percentage of your marks?

15

Find the value of 60% of 150 pounds.

16

Find the value of x if: $\frac{7}{11} = \frac{21}{x}$. $x =$

17

30 % of = 210

18

Hoda has 20 oranges, 5 of them are rotten. Find the percentage of rotten tomatoes.



حمل الآن

مجاناً وحصرياً

المراجعة رقم (8)

اختبار شهر مارس



Model (1)

Question 1 : Choose the correct answer :

- 1 A car travels 180km in 3 hours the unit rate is
 (a) 30k/h (b) 60km / h (c) 90km/h (d) 120km/h
- 2 Simplify the ratio 12: 18 is
 (a) 2: 3 (b) 3: 2 (c) 6: 9 (d) 4: 5
- 3 35% of 80 = ...
 (a) 10 (b) 15 (c) 28 (d) 25
- 4 $\frac{3}{5} \times 10 = \dots$
 (a) 5 (b) 6 (c) 7 (d) 8
- 5 Convert 4.5 kg to grams =.....
 (a) 45 (b) 450 (c) 4500 (d) 45000
- 6 Reciprocal of 5=.....
 (a) $\frac{1}{5}$ (b) 5 (c) -5 (d) 0
- 7 $6 \div 0.3 = \dots$
 (a) 2 (b) 20 (c) 18 (d) 15
- 8 Equivalent ratio of 3: 4
 (a) 6: 10 (b) 9: 12 (c) 12: 15 (d) 5: 8
- 9 40 is 20% of
 (a) 80 (b) 100 (c) 200 (d) 400

Question 2 : Answer the following questions :

- 1 $\frac{7}{8} \div \frac{1}{4}$
- 2 Convert 3500m to km ?
- 3 A book costs 120 pounds . increase 10% find new price ?

- 4 Simplify 24: 36 ?
- 5 150km in 5 hours , find unit rate ?
- 6 Find 30% of 250?
- 7 Ratio of boys to girls is 3: 4 and total student is 28, find the number of boys ?

Model (2)

Question 1 : Choose the correct answer :

- 1 $\frac{3}{4} \times \frac{2}{5} = \dots$ (simplest)
 - a $\frac{6}{20}$
 - b $\frac{3}{10}$
 - c $\frac{5}{8}$
 - d $\frac{6}{9}$
- 2 Ratio of 8 boys to 4 girls in simplest form :
 - a 8: 4
 - b 4: 2
 - c 2: 1
 - d 1: 2
- 3 Unit rate of 120 km in 3 hours.
 - a 40km/h
 - b 30km/h
 - c 60km/h
 - d 90km/h
- 4 $0.6 \times 0.4 = \dots$
 - a 2.4
 - b 24
 - c 0.24
 - d 4.2
- 5 $\frac{3}{5}$ of 20 = ...?
 - a 6
 - b 12
 - c 15
 - d 10
- 6 25% as decimal is
 - a 0.25
 - b 2.5
 - c 25
 - d 0.025
- 7 $\frac{5}{6} \div \frac{1}{3} = \dots$
 - a $\frac{5}{18}$
 - b $\frac{15}{6}$
 - c $\frac{5}{2}$
 - d $\frac{1}{5}$

- 8 A bar is divided into 5 equal parts , 3 parts are shaded , what fraction is not shaded?
- (a) $\frac{3}{5}$ (b) $\frac{2}{5}$ (c) $\frac{5}{3}$ (d) $\frac{1}{5}$
- 9 15 is what percent of 60 ?
- (a) 5% (b) 10% (c) 15% (d) 25%

Question 2 : Answer the following questions :

- 1 a) 1.25×0.4 b) $\frac{4}{5} \div 2 =$
- 2 Write ratio 12 apples to 18 oranges with three ways ?
- 3 Find 30% of 250 ?
- 4 A recipe uses sugar and flour in ratio 2: 5 in flour = 20 cups , How much sugar ?
- 5 A Car travels 180 km in 4 hours , find unit rate ?
- 6 How Many 18 in 4?
- 7 Ali works 6km in 1.5 hours, Omar walks 8km in 2 hours Who walks faster ?

Model (3)

Question 1 : Choose the correct answer :

- 1 $\frac{9}{10} \div \frac{3}{5} =$
- (a) $\frac{27}{50}$ (b) $\frac{54}{30}$ (c) $\frac{3}{2}$ (d) $\frac{6}{5}$

- 2 Which is equivalent to 4: 7 ?
 (a) 8: 14 (b) 12: 14 (c) 4: 14 (d) 28: 4
- 3 Number multiplied by $\frac{1}{4}$ equals 6 , what is the number ?
 (a) 24 (b) 10 (c) 12 (d) 30
- 4 In a class , 18 students play football and 6 play basketball , what is the ratio between football : basketball in simplest form ?
 (a) 18: 6 (b) 3: 1 (c) 1: 3 (d) 6: 18
- 5 $n \times \frac{1}{5} = \frac{4}{5}$, find the value of n ?
 (a) $\frac{1}{4}$ (b) $\frac{4}{25}$ (c) 4 (d) 25
- 6 $20\% = \dots$
 (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$
- 7 $2.4 \times 1.3 = \dots$
 (a) 3.12 (b) 32.2 (c) 312 (d) 1.32
- 8 Find the reciprocal: $\frac{1}{6}$?
 (a) $\frac{1}{6}$ (b) 6 (c) 7 (d) $\frac{5}{6}$
- 9 Comparison between two quantities from the same kind and the same unit is called ...
 (a) rate (b) ratio (c) numerator (d) denominator

Question 2 : Answer the following questions :

- 1 Find the quotient of $3.2 \div 0.32$?
- 2 540km per 5 hours , find the unit rate using the double line ?
- 3 Find B: $\frac{7}{11} = \frac{21}{B}$?

- ## Model (4)

Ⓐ 400 Ⓑ 500 Ⓒ 600 Ⓓ 700

- 7 If 6 is a $\frac{1}{4}$ of a number , then the number is
- (a) 4 (b) 6 (c) 18 (d) 24
- 8 1 liter =milliliters
- (a) 10 (b) 100 (c) 1000 (d) 0.001
- 9 In the opposite tape diagram , ratio of the number of boys to number of girls is
- boys
- girls
- (a) 4: 5 (b) 5: 4 (c) 4: 4 (d) 5: 6

Question 2 : Answer the following questions :

- 1 What number gives 35% equal to 70 ?
- 2 Ali reads 45 pages in 1.5 hours , mona reads 60 pages in 2 hours.
Who reads faster?
- 3 How many $\frac{2}{3}$ are in 4 ?
- 4 A factory produces 720 items in 8 hours , how many in 3 hours ?
- 5 $\frac{5}{6} + \left(\frac{1}{3} \times \frac{3}{4}\right)$
- 6 In a class of 40 students, 18 are boys.
a) ratio boys to total ?
b) percent boys ?
- 7 A garden is $\frac{5}{6}$ planted , $\frac{1}{5}$ of the planted part is flowers , what fraction of the whole garden is flowers ?

Question 1 : Choose the correct answer :

- 1 Which ratio is greatest ?
 (a) 7:9 (b) 4:5 (c) 5:8 (d) 9:12
- 2 At 15 pounds per kg , how many kg can be bought for 90 pounds ?
 (a) 5 (b) 6 (c) 7 (d) 8
- 3 a number is creased by 20% becomes 120 , what was the original number ?
 (a) 80 (b) 90 (c) 100 (d) 110
- 4 If $3:4 = x:20$, then $x = \dots$
 (a) 10 (b) 12 (c) 15 (d) 16
- 5 $\frac{9}{12}$ simplify = ...
 (a) $\frac{2}{5}$ (b) $\frac{3}{6}$ (c) $\frac{3}{4}$ (d) $\frac{3}{2}$
- 6 $\frac{4}{5} \div \frac{2}{15} =$
 (a) 6 (b) 3 (c) 5 (d) 4
- 7 250 by 12% = ...
 (a) 262 (b) 270 (c) 280 (d) 300
- 8 Ratio 1: 4 represent what percent of the whole ?
 (a) 20% (b) 25% (c) 40% (d) 75%
- 9 $\frac{7}{20} = \dots \%$
 (a) 35 (b) 3.5 (c) 70 (d) 0.35

Question 2 : Answer the following questions :

- 1 In a test 24 students speed out of 30 ?
 A) ratio passed to total.
 b) fraction passed?
 c) percent passed?

- 2 If the ratio of red to blue balls is 5: 7 , and total are 72 , how many red balls ?
- 3 Which is greater?
a) 0.65 or b) $\frac{5}{8}$
- 4 A shirt costs 900 pounds, it was reduced by 10% , find the new price ?
- 5 Find :
A) 0.62×0.52 b) $\frac{7}{5} \div 2$
- 6 Find 25% of 200 ?
- 7 A car travels 180km in 3 hours, find speed per hour?

Model (1)

Question 1 : Choose the correct answer :

- ① A car travels 180km in 3 hours the unit rate is
 (a) 30k/h (b) **60km / h** (c) 90km/h (d) 120km/h
- ② Simplify the ratio 12: 18 is
 (a) **2: 3** (b) 3: 2 (c) 6: 9 (d) 4: 5
- ③ 35% of 80 = ...
 (a) 10 (b) 15 (c) **28** (d) 25
- ④ $\frac{3}{5} \times 10 = \dots$
 (a) 5 (b) **6** (c) 7 (d) 8
- ⑤ Convert 4.5 kg to grams =.....
 (a) 45 (b) 450 (c) **4500** (d) 45000
- ⑥ Reciprocal of 5=.....
 (a) **$\frac{1}{5}$** (b) 5 (c) -5 (d) 0
- ⑦ $6 \div 0.3 = \dots$
 (a) 2 (b) **20** (c) 18 (d) 15
- ⑧ Equivalent ratio of 3: 4
 (a) 6: 10 (b) **9: 12** (c) 12: 15 (d) 5: 8
- ⑨ 40 is 20% of
 (a) 80 (b) 100 (c) **200** (d) 400

Question 2 : Answer the following questions :

① $\frac{7}{8} \div \frac{1}{4}$

$$\frac{7}{8} \times \frac{4}{1} = \frac{7}{2} = 3\frac{1}{2}$$

② Convert 3500m to km ?

$$\frac{3500}{1000} = 3.5km$$

- 3 A book costs 120 pounds . increase 10% find new price ?

$$10\% \text{ of } 120 = 12$$

$$120 + 12 = 132$$

- 4 Simplify 24: 36 ?

$$\begin{array}{l} 6 \div 4 : 6 \\ 2 \div 2 : 3 \end{array}$$

- 5 150km in 5 hours , find unit rate ?

$$\begin{array}{l} 150\text{km} : 5h \\ 30\text{km} : 1h \end{array} \div 5 = 30\text{km}/h$$

- 6 Find 30% of 250?

$$250 \rightarrow 10\% = 25$$

$$30\% = 25 \times 3 = 75$$

- 7 Ratio of boys to girls is 3: 4 and total student is 28, find the number of boys ?

$$\begin{array}{l} \text{boys} = \text{girls} : \text{total} \\ \times 4 \left(\begin{array}{ccc} 3 : & 4 & : 7 \\ ? & & 28 \end{array} \right) \times 4 \\ \text{boys} = 12 \end{array}$$

Model (2)

Question 1 : Choose the correct answer :

- 1 $\frac{3}{4} \times \frac{2}{5} = \dots$ (simplest)

(a) $\frac{6}{20}$

(b) $\frac{3}{10}$

(c) $\frac{5}{8}$

(d) $\frac{6}{9}$

- 2 Ratio of 8 boys to 4 girls in simplest form :

(a) 8: 4

(b) 4: 2

(c) 2: 1

(d) 1: 2

- 3 Unit rate of 120 km in 3 hours.

(a) 40km/h

(b) 30km/h

(c) 60km/h

(d) 90km/h

- 4 $0.6 \times 0.4 = \dots$
 (a) 2.4 (b) 24 (c) **0.24** (d) 4.2
- 5 $\frac{3}{5}$ of 20 = ...?
 (a) 6 (b) **12** (c) 15 (d) 10
- 6 25% as decimal is
 (a) **0.25** (b) 2.5 (c) 25 (d) 0.025
- 7 $\frac{5}{6} \div \frac{1}{3} = \dots$
 (a) $\frac{5}{18}$ (b) $\frac{15}{6}$ (c) **$\frac{5}{2}$** (d) $\frac{1}{5}$
- 8 A bar is divided into 5 equal parts , 3 parts are shaded , what fraction is not shaded?
 (a) $\frac{3}{5}$ (b) **$\frac{2}{5}$** (c) $\frac{5}{3}$ (d) $\frac{1}{5}$
- 9 15 is what percent of 60 ?
 (a) 5% (b) 10% (c) 15% (d) **25%**

Question 2 : Answer the following questions :

- 1 a) 1.25×0.4 b) $\frac{4}{5} \div 2 =$
 a) $\begin{array}{r} 1.25 \\ \times 0.4 \\ \hline 0.500 \end{array}$ b) $\frac{4}{5} \times \frac{1}{2} = \frac{2}{5}$
- 2 Write ratio 12 apples to 18 oranges with three ways ?
 $\frac{12}{18}$, 12:18 , 12 to 18
- 3 Find 30% of 250 ?
 $\frac{30}{100} \times 250 = 75$
- 4 A recipe uses sugar and flour in ratio 2: 5 in flour = 20 cups , How much sugar ?
 sugar : flour
 $\times 4 \left(\begin{array}{cc} 2 & : & 5 \\ ? & : & 20 \end{array} \right) \times 4$
 sugar = 8

- 5 A Car travels 180 km in 4 hours , find unit rate ?
 $180 \div 4 = 45 \text{ km/h}$

- 6 How Many 18 in 4?
 $4 \div \frac{1}{8} = 4 \times 8 = 32$

- 7 Ali works 6km in 1.5 hours, Omar walks 8km in 2 hours
Who walks faster ?
 $6 \div 1.5 = 4 \text{ km/h}$
 $8 \div 2 = 4 \text{ km/h}$
same equal

Model (3)

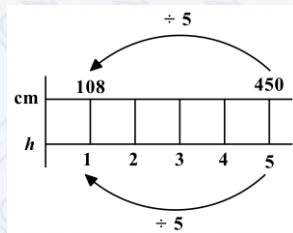
Question 1 : Choose the correct answer :

- 1 $\frac{9}{10} \div \frac{3}{5} = \dots\dots\dots$
 (a) $\frac{27}{50}$ (b) $\frac{54}{30}$ (c) $\frac{3}{2}$ (d) $\frac{6}{5}$
- 2 Which is equivalent to 4: 7 ?
 (a) 8: 14 (b) 12: 14 (c) 4: 14 (d) 28: 4
- 3 Number multiplied by $\frac{1}{4}$ equals 6 , what is the number ?
 (a) 24 (b) 10 (c) 12 (d) 30
- 4 In a class , 18 students play football and 6 play basketball , what is the ratio between football : basketball in simplest form ?
 (a) 18: 6 (b) 3: 1 (c) 1: 3 (d) 6: 18
- 5 $n \times \frac{1}{5} = \frac{4}{5}$, find the value of n ?
 (a) $\frac{1}{4}$ (b) $\frac{4}{25}$ (c) 4 (d) 25
- 6 $20\% = \dots$
 (a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$

- 7 $2.4 \times 1.3 = \dots$
 (a) 3.12 (b) 32.2 (c) 312 (d) 1.32
- 8 Find the reciprocal: $\frac{1}{6}$?
 (a) $\frac{1}{6}$ (b) 6 (c) 7 (d) $\frac{5}{6}$
- 9 Comparison between two quantities from the same kind and the same unit is called ...
 (a) rate (b) ratio (c) numerator (d) denominator

Question 2 : Answer the following questions :

- 1 Find the quotient of $3.2 \div 0.32$?
 $\times \frac{32}{100} \div 0.32 = 320 \div 32 = 10$
- 2 540km per 5 hours , find the unit rate using the double line ?



$= 108 \text{ km/h}$

- 3 Find $B: \frac{7}{11} = \frac{21}{B}$?

$\times 3$
 $\frac{7}{11} = \frac{21}{b}$, $B = 33$
 $\times 3$

- 4 Mohamed distributed 30 cakes pieces among his friends , and this number represents 60% of the total number of the cake pieces he had with him

What is total number Mohamed had ?

$1 \text{ piece} = 60\%$
 $30 \div \frac{60}{100} = 30 \times \frac{100}{60} = 50 \text{ pieces}$

- 5 Convert 600cm to meter using the converse factor ?

$$\frac{1m}{100cm} \times \frac{600cm}{1m} = \frac{600}{100} = 6m$$

- 6 Determine the best price to buy between 7 pens for 28 L.E or 10 pens for 30 L.H?

$$\frac{7 \text{ Pens}}{28 \text{ L.E}} = \frac{1}{4} \quad , \quad \frac{10}{30} = \frac{1}{3}$$

$$= 4 \text{ L.} \frac{E}{pens} \quad , \quad = 3 \text{ L.} \frac{E}{Pens}$$

best price is 7 pens for 28L.E

- 7 Put the following ratio in simplest form ?

a) 35:45

b) 27:36

5 ÷ 7 : 9

9 ÷ 3 : 4

Model (4)

Question 1 : Choose the correct answer :

- 1 The missing number in the pattern $\frac{1}{2}, \frac{2}{4}, \dots, \frac{\dots}{8}$ is

(a) 3

(b) 4

(c) 6

(d) 7

- 2 The least common denominator for the two fractions $\frac{3}{8}$ and $\frac{1}{3}$ is

(a) 24

(b) 21

(c) 18

(d) 15

- 3 The quotient of $\frac{5}{8} \div 2 = \dots$

(a) 10

(b) $\frac{5}{4}$

(c) $\frac{5}{16}$

(d) 16

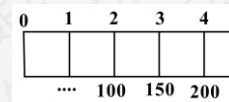
- 4 in the opposite double number line the air condition devices that the factory produces in a day

(a) 15

(b) 20

(c) 25

(d) 50



- 5 That unit rate that expresses (Hazem covers by his bicycle 40 m per two minutes) is ..

(a) $\frac{90m}{2min}$

(b) $\frac{20m}{1min}$

(c) $\frac{80m}{4min}$

(d) $\frac{60m}{3min}$

- 6 30% of=210
 (a) 400 (b) 500 (c) 600 (d) **700**
- 7 If 6 is a $\frac{1}{4}$ of a number , then the number is
 (a) 4 (b) 6 (c) 18 (d) **24**
- 8 1 liter =milliliters
 (a) 10 (b) 100 (c) **1000** (d) 0.001
- 9 In the opposite tape diagram , ratio of the number of boys to number of girls is
 boys
 girls
 (a) **4:5** (b) 5:4 (c) 4:4 (d) 5:6

Question 2 : Answer the following questions :

- 1 What number gives 35% equal to 70 ?

$$35\% \text{ of } x = 70$$

$$70 \div \frac{35}{100} = 70 \times \frac{100}{35} = 200$$
- 2 Ali reads 45 pages in 1.5 hours , mona reads 60 pages in 2 hours.
 Who reads faster?

$$45 \div 1.5 = 30 \text{ pages/h}$$

$$60 \div 2 = 30 \text{ pages/h}$$
same speed
- 3 How many $\frac{2}{3}$ are in 4 ?

$$4 \div \frac{2}{3} = 4 \times \frac{3}{2} = 6$$
- 4 A factory produces 720 items in 8 hours , how many in 3 hours ?

$$\times 90 \left(\frac{720}{8} = \frac{\dots}{3} \right) \times 90 \quad 3 \times 90 = 270$$

5 $\frac{5}{6} + \left(\frac{1}{3} \times \frac{3}{4}\right)$

$$\frac{5}{6} + \frac{1}{4} = \frac{10}{12} + \frac{3}{12} = \frac{13}{12} = 1\frac{1}{12}$$

- 6 In a class of 40 students, 18 are boys.
a) ratio boys to total ?

$$18:40 \div 2 = 9:20$$

- b) percent boys ?

$$\frac{18}{40} = \frac{9}{20} \xrightarrow{\times 5} \frac{45}{100} = 45\%$$

- 7 A garden is $\frac{5}{6}$ planted, $\frac{1}{5}$ of the planted part is flowers, what fraction of the whole garden is flowers ?

$$\frac{1}{5} \times \frac{5}{6} = \frac{1}{6}$$

Model (5)

Question 1 : Choose the correct answer :

- 1 Which ratio is greatest ?
 (a) 7:9 (b) **4:5** (c) 5:8 (d) 9:12
- 2 At 15 pounds per kg, how many kg can be bought for 90 pounds ?
 (a) 5 (b) **6** (c) 7 (d) 8
- 3 a number is creased by 20% becomes 120, what was the original number ?
 (a) 80 (b) 90 (c) **100** (d) 110
- 4 If $3:4 = x:20$, then $x = \dots$
 (a) 10 (b) 12 (c) **15** (d) 16

5 $\frac{9}{12}$ simplify = ...

(a) $\frac{2}{5}$

(b) $\frac{3}{6}$

(c) $\frac{3}{4}$

(d) $\frac{3}{2}$

6 $\frac{4}{5} \div \frac{2}{15} =$

(a) 6

(b) 3

(c) 5

(d) 4

7 250 by 12% = ...

(a) 262

(b) 270

(c) 280

(d) 300

8 Ratio 1: 4 represent what percent of the whole ?

(a) 20%

(b) 25%

(c) 40%

(d) 75%

9 $\frac{7}{20} = \dots \%$

(a) 35

(b) 3.5

(c) 70

(d) 0.35

Question 2 : Answer the following questions :

1 In a test 24 students speed out of 30 ?

A) ratio passed to total.

$$24:30 = 4:5$$

b) fraction passed?

$$\frac{24}{30} = \frac{4}{5}$$

c) percent passed?

$$\frac{4}{5} \xrightarrow{\times 20} \frac{80}{100} = 80\%$$

2 If the ratio of red to blue balls is 5: 7 , and total are 72 , how many red balls ?

red : blue : total

$$\times 6 \left(\begin{array}{ccc} 5 & : & 7 & : & 12 \\ ? & & & & 72 \end{array} \right) \times 6$$

$$72 \div 12 = 6 , 6 \times 5 = 30$$

3 Which is greater?

a) 0.65 or

b) $\frac{5}{8}$

a) $\frac{65}{100} = 65\%$

b) $\frac{5}{8 \times 125} = \frac{625}{1000} = 62.5\%$, *A is greater*

4 A shirt costs 900 pounds, it was reduced by 10% , find the new price ?

$10\% \text{ of } 900 = 90$

$900 - 90 = 810 \text{ pounds}$

5 Find :

A) 0.62×0.52

a)
$$\begin{array}{r} 0.62 \\ \times 0.52 \\ \hline 144 \\ \times 3100 \\ \hline 0.3224 \end{array}$$

b) $\frac{7}{5} \div 2$

b) $\frac{7}{5} \times \frac{1}{2} = \frac{7}{10} = 0.7$

6 Find 25% of 200 ?

$\frac{25}{100} \times 200 = 50$

7 A car travels 180km in 3 hours, find speed per hour?

$180 \div 3 = 60 \text{ km/h}$

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9

